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Fortieth Annual Report
of the
State Board of Health
of South Carolina

For the Fiscal Year 1919 to the
Legislature of South Carolina



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COLUMBIA, S. C.
GONZALES AND BRYAN, STATE PRINTERS,
1920

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LETTER OF TRANSMITTAL

His Excellency, R. A. Cooper, Governor of South Carolina.

Sir: I have the honor to submit the fortieth annual report of the Executive Committee of the State Board of Health.

Last year the General Assembly appropriated \$10,000 for the establishment of a Bureau of Child Hygiene, which since was supplemented by an equal amount from other sources giving \$20,000 for a working fund. The report of Mrs. Ruth A. Dodd, Supervisor of Public Health Nursing, shows how this money was expended and what was accomplished. No more important work can be undertaken than the conservation of infant life and the instructing of parents how to guard their children's health so that they may grow up physically fit for the struggles of life. The children of today are the men and women of tomorrow, and the quality of citizenship of the next generation will depend upon the quality of the children of this generation, and this in turn will depend largely upon the success of the efforts we are making to raise the standards of health. It is to be hoped that the General Assembly will support these efforts generously.

Too much emphasis cannot be laid upon the work of the Division of Venereal Disease Control under the direction of Dr. C. V. Akin, U. S. Public Health Service, to whose report your earnest attention is invited. When the General Assembly last year made it possible for the State Board of Health to assume this work as one of its functions there were three venereal clinics in the State with a daily attendance of 50, 95 per cent. of which was compulsory. Today there are in active operation eight venereal clinics with an average daily attendance of three hundred twenty-five, not including those examined and found free of infection, and over 90 per cent. of this attendance is voluntary. These figures indicate the tremendous work that is being accomplished and the rapid growth of voluntary attendance is sufficient evidence of its great need.

The venereal diseases exert a more far-reaching and subtle influence for evil than probably any other disease group. They are responsible for much loss of life, for lessened economic productiveness, for sterility, for insanity and degeneracy, and reaching forward into the future they instil the poison into the heart

of another generation. Surely it is time for us to wake up out of our lethargy and bend every effort, openly and not secretly, toward the destruction of this evil. It can be done, but it will require money and organization. Will the General Assembly support our efforts?

It is with much gratification that we call your attention to the continued good work of the South Carolina Sanatorium for the treatment of tuberculosis. The building for the care of tuberculous negroes provided for by the General Assembly last year is now under process of construction, but owing to the high cost of building material it will be necessary to ask for an additional sum for its completion. The negroes themselves have taken a very great interest in this work and have raised among themselves the sum of \$6,729.78 to supplement the State appropriation, a striking evidence of their earnestness and determination.

I wish again to urge the great need of repressive legislation to control the annual loss occasioned by rabies. The director of the laboratory reports three hundred sixty preventive inoculations against rabies given this year, "less than for the two preceding years, but hardly enough decrease to warrant the opinion that the disease is on the decrease in our State." Two deaths are reported this year.

Last year provision was made for the employment of a sanitary engineer and Mr. E. L. Filby received the appointment. Mr. Filby's report indicates the scope of his work and what he has been able to accomplish. He has been a most valuable addition to our working force and fills a need which the board has long felt.

Respectfully,

ROBERT WILSON, JR., M. D.,
Chairman Executive Committee
of the State Board of Health.

GENERAL REPORT

This is the fortieth annual report of the Executive Committee of the State Board of Health, and is for the year ending December 31st, 1919.

This report is made in compliance with the Concurrent Resolution, which directs that every officer of the departments of the State government required by law to make a report to the General Assembly shall contain only concise statements of recommendations and of the transactions of the officer of the department; and that no copy of any report, or document, or law, or proposed measure shall be made and printed at the expense of the State except what shall be absolutely necessary for the information of the General Assembly.

EXECUTIVE COMMITTEE STATE BOARD OF HEALTH.

Robt. Wilson, Jr., M. D., Chairman.....	Charleston
R. A. Marsh, M. D.....	Edgefield
C. C. Gambrell, M. D.....	Abbeville
E. A. Hines, M. D.....	Seneca
W. J. Burdell, M. D. (Captain in M. C. U. S. A.).....	Lugoff
Wm. Egleston, M. D.	Hartsville
W. M. Lester, M. D.....	Columbia
W. W. Dodson, Phg. D.....	Greenville
Sam'l. M. Wolfe, Attorney General.....	Columbia
R. L. Osborne, Comptroller General.....	Columbia
James A. Hayne, M. D.....	
Secretary and State Health Officer, Columbia.	

STAFF OF SOUTH CAROLINA DEPARTMENT OF HEALTH, EXECUTIVE DEPARTMENT.

James A. Hayne, M. D., Executive Officer of State Board of Health.

C. V. Akin, M. D., Assistant State Health Officer.

E. L. Filby, State Sanitary Engineer.

E. W. Grieshaber, Clerk of the Board.

N. C. Cunningham, Secretary to Dr. Hayne.

John Roundtree, Janitor.

DEPARTMENT OF COUNTY HEALTH WORK.

L. A. Riser, M. D., in Charge..

M. C. Dibble, Office Secretary.

R. S. Bailey, M. D., in Charge Orangeburg County Unit.

S. J. Anderson, Social Worker, Orangeburg County Unit.

M. E. Simpson, County Nurse, Orangeburg County Unit.

C. H. Verner, M. D., in Charge Darlington County Unit.

B. Milne, County Nurse, Darlington County Unit.

H. Cannon, Social Worker, Darlington County Unit.

A. R. Nicholson, Inspector, Darlington County Unit.

C. S. Kinzer, M. D., in Charge Calhoun County Unit.

S. R. Kinzer, County Nurse, Calhoun County Unit.

W. P. Prickett, Inspector, Calhoun County Unit.

Carl A. West, M. D., in Charge Lexington County Unit.

A. J. Hill, County Nurse, Lexington County Unit.

L. Mack, Social Worker, Lexington County Unit.

R. C. Roof, Inspector, Lexington County Unit.

Walter Boone, M. D., in Charge Lee County Unit.

A. Murphy, Social Worker, Lee County Unit.

M. Fisher, Social Worker, Lee County Unit.

D. T. Rankin, M. D., in Charge Sumter County Unit.

E. E. Stroup, County Nurse, Sumter County Unit.

B. Anthony, Social Worker, Sumter County Unit.

LABORATORY DEPARTMENT.

F. A. Coward, M. D., in Charge.

James R. Cain, Bacteriologist.

H. M. Smith, M. D., Assistant Bacteriologist.

M. C. Davis, Stenographer.

F. L. Parker, M. D., Chemist and Bacteriologist, Charleston.

BUREAU OF VITAL STATISTICS.

C. W. Miller, Chief Clerk.

M. Lindsay, Filing Clerk.

L. Thomas, Index Clerk.

M. Currell, Stenographer.

SOUTH CAROLINA SANATORIUM.

Ernest Cooper, M. D., Superintendent.

_____, Asst. Phys. (Position to be filled.)

Caroline T. Morton, Matron.

Carrie Spivey, Head Nurse.

A. I. Rembert, Field Secretary.

Pupil Nurses.

Servants.

DIVISION OF VENEREAL DISEASE CONTROL.

C. V. Akin, M. D., P. A. Surgeon, U. S. Public Health Service,
in charge.

G. E. Neal, M. D., Field Supervisor of Clinics.

F. O. Winter, Clerk and Stenographer.

Jas. H. Fowles, Attorney.

Anderson Clinic: L. W. Blake, M. D.; P. W. Blake, Nurse.

Charleston Clinic: T. P. Brown, M. D.; T. W. Rhodes, M. D.;
G. Turner, Nurse; G. R. Williams, Attendant.

Columbia Clinic: N. B. Edgerton, M. D.; S. E. Wheeler, M. D.;
L. Blackburn, Nurse; L. Lester, Nurse; W. A. Penn, Attendant;
C. Green, Hired Help.

Florence Clinic: J. D. Eaddy, M. D.; E. Morgan, Nurse.

Greenville Clinic: M. T. Moore, M. D.; T. M. Davis, M. D.;
F. A. Luben, Nurse; F. A. Luben (Mrs.) Nurse.

Newberry Clinic: J. B. Setzler, M. D.; N. I. McCarley, Nurse.

Orangeburg Clinic: V. W. Brabham, M. D., H. T. Schiffley,
M. D.; M. Schiffley, Nurse.

Spartanburg Clinic: C. L. Booth, M. D.; O. W. Wilson, M. D.;
M. I. Grant, Nurse.

BUREAU OF CHILD HYGIENE.

Mrs. Ruth A. Dodd, R. N., in charge.

Miss Malinda Murphy, assistant supervising nurse.

Miss Annie C. Aiken, secretary to Mrs. Dodd.

Ellen Woods Carter, field nurse.

MEETINGS.

(Same in 1919.)

The Executive Committee of the State Board of Health, in addition to its regular quarterly meetings, held four called meetings. The Subcommittee for the S. C. Sanatorium held one meeting.

THE BOARD'S QUARTERS.

The Executive Department of the State Board of Health and the Department of Venereal Disease Control, occupy rooms on the fifth floor of the Palmetto Building.

The Bureau of Child Hygiene and the Field Secretary of the S. C. Sanatorium occupy an office on the fourth floor of the Palmetto Building.

The Department of County Health Work is on the tenth floor of the Palmetto Building.

The Laboratory remains in well arranged rooms furnished by the University of South Carolina, in LeConte College.

The Bureau of Vital Statistics is at the University of South Carolina in LeConte College.

The South Carolina Sanatorium for the treatment of Tuberculosis is at State Park, eight miles from Columbia.

MISCELLANEOUS.

In reviewing the work of the various departments of the State Board of Health for 1919, the salient feature apparent is that of accomplishment. From feeble gropings toward the betterment of health conditions we have at last arrived at definite, clear cut lines of progress.

The end of the great world war, in which South Carolina's sons so well did their part, gave to the Health Department new problems; for the returning soldiers had had drilled into them the principles of sanitation and individual hygiene. They had been taught how dependent was each individual upon the proper conduct of every other individual if a camp or community was to be kept free from disease. Their sanitary conscience was awakened, and they demanded the same paternal care from the State that had been provided by the United States Government in safeguarding them from preventable diseases.

The Legislature realized that the hope of this State lay in its young men and women, its babies and its school children; and when plans were submitted to them at the last session they eagerly assented, and two most important departments were made possible; namely, that of Child Hygiene and Venereal Disease Control. The reports of these Departments, found elsewhere in this volume, should be read with care for they mark an era in the public health history of South Carolina.

The Bureau of Child Hygiene has commenced its tremendous task by endeavoring to see that the rights of a child are conserved. Now what are the rights of a child? *First*, that its parents shall be healthy, both mentally and physically, in order that the child shall not enter the race of life handicapped by transmitted disease or mental weakness. *Second*, that its mother shall, neither through poverty nor ignorance, be prevented from bringing it into the world under hygienic surroundings. *Third*, that after its birth it shall have an equal chance with all other babies born to develop into a normal, healthy child. *Fourth*, that when it reaches school age it shall have the best that the resources of the State can command in the way of properly ventilated schools, correctly lighted and heated, with the most approved methods of sanitation, where its budding mind may be trained so that it may grow into a contented, industrious, sober and healthy citizen and be ready to take its place in the ranks of the producers, and be an asset to the State that has cared for it. These rights the Legislators of South Carolina will always conserve, and the expenses of this conservation the people of South Carolina will cheerfully pay. No lawmaker can ignore them; no people can be great that neglects them. The energies of Mrs. Ruth A. Dodd, in charge of this Department, have been directed toward listing the midwives of the State so that some sort of supervision may be maintained over them, and that they may receive instruction, and finally be licensed. Nurses specially trained in this work have endeavored to reach expectant mothers, and those who have infants and young children, to instruct them so that the life of the child may be guarded against ignorance and superstition. Children in schools have been inspected and defects in hearing or sight detected and parents notified so that these might be remedied. Mrs. Dodd's report shows that their work has been well done. We feel that it is foolish to spend millions annually on education unless such education is given to physically fit children. We urge

the General Assembly to take up this matter of medical inspection of school children. It has been urged before, but never have the people been so fully awake to the need for it, nor so desirous of having it. The work of the State Board of Health has, so far, been in the nature of a demonstration; but now we are ready to give a definite plan whereby the children will be actually benefited, and inspections will not simply supply statistics. Inspections are valueless unless defects are remedied, and the State must provide the means for children of the poor to have the necessary medical aid given them by establishing clinics where teeth may be treated, diseased tonsils and adenoids removed, properly fitted glasses furnished. North Carolina is doing this for her children, and South Carolina cannot afford to do less.

In order to have the work of the Bureau of Child Hygiene under the direct advice of the best and most up to date men of the medical profession in the State the following committee has consented to serve as an Advisory Council: Drs. E. A. Hines, Seneca; D. L. Smith, Spartanburg; J. LaBruce Ward, Columbia; W. W. Weston, Columbia; Asheley Mood, Sumter; R. M. Politzer, Charleston. With their advice and counsel we feel that we cannot go far wrong.

Venereal disease control work has been splendidly carried on for the past year under Dr. C. V. Akin, P. A. Surgeon, United States Public Health Service, and the fact that up to the writing of this report seven thousand, eight hundred seventy-three people have been treated in the various clinics, and of this number three thousand, six hundred fifty-three persons have been cured of syphilis is abundant proof of the necessity of this Division. When it is considered that one case of syphilis cured means that the descendants of that man or woman are freed from the curse of this taint of the blood that manifests itself in insanity, epilepsy, a tendency toward tuberculosis, feeble-mindedness and all the many things that spring from hereditary syphilis, it needs no argument to show that every dollar expended means to the State the saving of many dollars; for from the syphilitic come the inmates of our insane asylums, our poor houses, our tuberculosis sanatoria and all other places that demand the taxpayers' money to keep up these unfortunates. We should have a clinic in every county seat, and should see to it that those infected are cured and not allowed to spread the disease. South Carolina

stands among the first of the States in this work, and having put our hand to the plow, there must be no turning back.

Health conditions this fall have been the most favorable in years throughout the country. The records of the large States and cities and those of the life insurance companies show no signs of a recurrence of the recent influenza epidemic. January of this year saw a recrudescence of this disease and its consequent deaths from pneumonia. The General Assembly promptly granted the State Health Officer's request for \$10,000.00 to give medical and nursing aid to those stricken. Help was promptly furnished and many lives saved. We looked forward with dread to the coming of the fall, and perhaps a repetition of the terrible scourge of the fall of 1918, but the predictions of the wise proved wrong, and a steadily declining death rate has helped to heal the scars left upon the State by the epidemic. The mortality from other diseases is at an unusually low point. This may be due to the fact that the larger number of those susceptible were more or less immunized by contracting the disease last fall. There is no doubt, also, that the epidemic carried off prematurely a large number of persons who had other diseases, usually chronic, who would probably have died this year. The general average of the public health is, therefore, better than it has been for a long time. Looking over the report of the Bureau of Vital Statistics we find that in spite of the heavy mortality of January and February there have been only eighteen thousand, nine hundred ninety-two deaths for the first ten months as compared with twenty-four thousand, five hundred eight for the corresponding months of last year. Of course last year one thousand two hundred thirty-five of these were soldiers who died in camps. The year 1919, in spite of its bad beginning, will probably close as one of the best in the history of the country from the health standpoint. We do not take credit to the State Board of Health and its activities entirely for this steady decrease in the death rate from communicable or preventable diseases, but the fact remains that of the diseases against which we have made every effort since 1911 there has been a most noticeable falling off. The records of the Bureau of Vital Statistics show that what is usually called infant mortality, namely, deaths of children under one year of age, has decreased, there having been four thousand, eight hundred twenty-three deaths in 1918, while in 1919 there were four thousand, one hundred thirty-two, a saving of six hundred ninety-one baby

lives. In the next division, namely, from one to five years, there were in 1918 three thousand, ninety-seven, while in 1919 there were only one thousand, seven hundred eighteen, a saving of one thousand, three hundred seventy-nine. It looks as if Providence intended that the best crop of South Carolina, the baby crop, was allowed to survive so that they might replace those who had been taken by war and pestilence.

In the report on epidemic diseases, found further on in this volume, it is shown how every disease shows a lower death rate than the year preceding. The efforts put forth by the many agencies for public health are surely bearing good fruit. The only disease that has been epidemic this year has been diphtheria which, for some unknown reason, has been more prevalent than it has been for the past ten years; but, thanks to the free distribution of antitoxin, it does not show a very large death rate, as it would undoubtedly have done had it not been for this provision of the General Assembly. The total number of cases of diphtheria treated with antitoxin up to December 1 was one thousand, nine hundred twenty-six against eight hundred sixty-five last year, at a cost of \$14,000.00 against \$6,000.00 last year. The epidemic was most severe in Lexington County, two hundred sixty-nine cases against twenty-three last year, and Spartanburg with one hundred sixty-four cases this year against eighty-five last. The death rate, however, has been very low, only sixty-one deaths having been reported up to November first against sixty-six the year previous. Doctors are making their diagnoses earlier, taking no chances, giving the antitoxin early within the first twenty-four hours, and the results are truly wonderful.

VITAL STATISTICS.

Under the efficient management of Mr. C. W. Miller, who devotes his entire time to this work and frequently is found in his office until ten o'clock at night, this Bureau is rendering most valuable service to the State in keeping accurate records of births and deaths. We are very proud of the fact that after an exhaustive examination of our records by the United States Census Bureau we were admitted to the registration area for births. This makes our reports on births and deaths official reports of the Federal Government. I quote a portion of the letter from the Census Bureau to me and urge that the Legislature act upon the suggestions made therein: "South Carolina is doing splendid work in registration in view of the limited appropriation. Sev-

eral things which seem necessary could be done if more money were available. A vault should be put in, an 'under one' check made, more attention should be paid to midwives, retail dealers' casket dealers' reports should be checked up with the certificates, and at least one full time or part time field man should be employed to go around from place to place where registration is not as good as it ought to be.

"Wonders have been done in South Carolina when we compare the limited appropriation to that which other States have available and, while the present condition is a tribute to Dr. Hayne and Mr. Miller, much remains to be done. Legislators are always busy during the sessions, but we feel sure that funds ample to carry on this most important work would be provided if the attention of the Legislators could be called to the splendid work already done, and the necessity for a larger appropriation, so that South Carolina could give its people as much protection, along vital statistics lines, as is enjoyed by any State."

LABORATORY.

Dr. Coward's excellent report of the work of this Department will be found elsewhere in this volume. It shows that the work has increased 100 per cent. This is due, to a large extent, to the number of Wassermann tests for syphilis. The Laboratory made twenty-seven thousand of these tests as required by Act of the General Assembly. We regard the Laboratory as perhaps the most important division of the State Department of Health, and one that is rendering a most valuable service. The personnel of the Laboratory is too small for the amount of work required, and the salaries are inadequate. It requires years of experience and expensive technical education to make a bacteriologist, and we are paying only the wages of a day laborer.

We again urge the Legislature to take heed to the danger of allowing the running at large of dogs, which, when they go mad, bite individuals, causing inconvenience, suffering, and sometimes death. We have treated three hundred and eight people bitten by rabid animals this year.

The Laboratory sent out twenty-eight thousand ampules for the prevention of typhoid fever, thus immunizing nine thousand three hundred thirty-three people. The history of the World War shows that this is the most effective means of controlling typhoid fever.

DEPARTMENT OF RURAL SANITATION.

Excellent results have been obtained in the six counties in which this work has been done during 1919. The counties, through their representatives, have expressed themselves as being very much pleased with the work done.

The International Health Board has appropriated \$18,000.00 for this work in South Carolina, and the Legislature has been asked for a like amount. The counties will each be asked for \$5,000.00 to supplement. The work will be done in six counties; and as we now have a trained personnel the work should be more efficiently done this year than ever before. This rural sanitation education leads up to a county health department, which should be in each county, and the need of such an organization requires no argument. The rural population needs safeguarding as much as, if not more than, the urban, and yet there is no organization in the counties that is responsible for this work. Census reports show that, although the country has more reasons for being healthy than the city, yet the country child is not as robust as the city child. As South Carolina is a rural State we must remedy this condition, or we are not doing our full duty to the child.

Dr. L. A. Riser has charge of this department, and his report is found elsewhere in this volume.

EXECUTIVE DEPARTMENT.

This department has entire charge of all the other divisions before mentioned. It receives from each of them a monthly report showing the work done by each during the month. According to a resolution passed by the Executive Committee on April 24th the State Health Officer is held directly responsible for each of the departments, and the head of the department is designated as assistant to the State Health Officer, in charge of such and such department.

From the executive department are also distributed diphtheria antitoxin, smallpox vaccine virus, typhoid bacterin, antimeningococcic serum, and tetanus antitoxin. Here, also, direct contact is maintained with the health officers of the various counties and cities, and campaigns planned against any epidemics that may be reported. Bulletins on health subjects are sent out from this office upon request.

The State Sanitary Engineer also works directly from this office. We are very fortunate in securing the services of Mr.

E. L. Filby, a graduate from Cornell University, for this work. Wherever there is trouble in the water supply of a city or community, or information wanted in regard to the proper disposal of sewage or garbage, the Sanitary Engineer promptly gives aid and technical advice.

The State Health Officer holds himself in readiness to visit cities or towns desiring his assistance in enforcing quarantine laws, or in problems relating to better health. He also attends all important medical meetings and thus keeps abreast of the most recent advances in the science of public health.

FOOD AND DRUGS.

The Department of Agriculture carries out the rules and regulations of the State Board of Health in regard to the Pure Food and Drug Law, and the co-operation between the two departments is excellent. We have adopted the standard Pure Food and Drug Laws recommended by the Federal Government.

REPORT ON EPIDEMIC AND CONTAGIOUS DISEASES OCCURRING IN SOUTH CAROLINA DURING 1919, BY JAMES A. HAYNE, CHAIRMAN OF COMMITTEE.

SMALLPOX.

During 1919 smallpox showed a tendency to increase in the State owing to laxity in observing the laws in regard to vaccination. We fear that in 1920 the result of this neglect will be shown in an increase in the number of smallpox cases. The State Board of Health is prepared at all times to furnish fresh vaccine virus upon request of anyone, and also to pay special agents to vaccinate persons in any community when required. We do not believe quarantine has much effect upon the spread of this disease, as mild cases either escape notice or are diagnosed as chicken-pox.

By quarters the following amount of smallpox vaccine virus was distributed:

	1918.	1919.
First quarter	\$ 340.00	\$ 740.56
Second quarter	105.40	406.12
Third quarter	908.80	1,016.67
Fourth quarter	720.00	455.00
Total	\$2,074.20	\$2,618.35

This shows an increase over 1918 of \$544.15 in the amount distributed. The total amount, \$2,618.35, represents the vaccine cost of protecting forty thousand, two hundred eighty-two persons against the disease.

There were reported to this office 304 cases of smallpox during 1919 against 180 in 1918, and 3 deaths against none the previous year. These figures do not represent the total number of cases in the State, as the doctors are still neglectful in reporting communicable diseases.

Dr. M. A. Floyd of St. Stephens, Dr. A. D. Gregg of Society Hill and Dr. J. D. Eaddy of Florence were appointed as special agents for the State Board of Health under Section 2 of Act 434, approved the 22d day of February, 1905.

SCARLET FEVER.

This disease showed some increase over 1918. There were 175 cases reported but only one death. The following measures should be carried out in the face of an epidemic:

1. Daily examination of exposed children and of possibly exposed persons for a week after last exposure.
2. Schools should not be closed where daily observation of the children by a doctor or nurse is available.
3. Education as to special danger of exposing young children to those exhibiting acute catarrhal symptoms of any kind.
4. Pasteurization of milk supply.

DIPHTHERIA.

Diphtheria showed a marked increase over the previous year, there being 2,142 cases reported, with 114 deaths, against 83 deaths in 1918. This Diphtheria epidemic was not confined to South Carolina, being almost universal in the United States. Owing to the free distribution of diphtheria antitoxin, however, the death rate in this State per 100,000 was 6.9, one of the lowest in the Union.

We append a table showing the number of cases diagnosed as diphtheria and receiving the antitoxin:

DIPHTHERIA TABLE NO. 1.

TABLE SHOWING THE NUMBER OF CASES DIAGNOSED AS DIPHTHERIA AND RECEIVING ANTITOXIN.

	January.	February	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Totals.
Abbeville							1	1	7	13	5	27	
Aiken							1	5	10	16	8	54	
Anderson		6	9	2	2	4	12	6	17	31	5	93	
Bamberg							3	14	3	4	8	32	
Barnwell				1			19	6	20		1	47	
Beaufort		1	1				1					3	
Berkeley											1	1	
Calhoun			4					1				1	
Charleston	9				11		10	13	8	24	25	9	109
Cherokee							1	3	4	6	9	6	29
Chester				2				5	7		10	10	34
Chesterfield		8	8	1			6	8	21	14	6		72
Clarendon				1				4	5				9
Colleton								20	5	8	16	11	60
Darlington								4		14			18
Dillon								2	33	28	23		91
Dorchester								2		1	5	2	11
Edgefield					8			1	3	1	1	1	15
Fairfield								1	8				9
Florence	1				4			5	2	19	17	6	54
Georgetown									3	11	2	2	18
Greenville			7				6	13	39	16	12	9	102
Greenwood	3			1		4	4		16	16	7	2	53
Hampton				1	1					2	3		7
Horry					2			1	7	4		6	20
Jasper													
Kershaw	1							9	12	7		5	34
Lancaster									1		13		14
Laurens	3		1		4	5			2	4		10	29
Lee					1				2	3			10
Lexington	1							72	41	103	20	27	269
Marion	2		4					3	2	7	18		40
Marlboro			3	1	1		2	4	11	8	23	2	55
Newberry						4		6	18	14	25	8	75
Oconee					6		1	2	10	20	8		47
Orangeburg	3			5				12	25	25	9		79
Pickens				4				3	1	12	6	6	32
Richland	5	5	7	1	3	1		19	24	31	33	24	153
Saluda		1	1		3		2	1	8	5	8	12	41
Spartanburg	1	5	9	2	3	6		24	34	50	22	3	159
Sumter	1		2	3			3	2	11	11		8	41
Union						2		2	14	2	6	13	39
Williamsburg													
York				9	2		4	5	4	20	5	1	50
Totals.....	30	26	56	33	52	26	56	289	419	575	377	203	2,142

The amount of diphtheria antitoxin consumed as compared with 1918 is as follows:

DIPHTHERIA TABLE NO. 2.

	1918				1919			
	1,000 Units	3,000 Units	5,000 Units	10,000 Units	1,000 Units	3,000 Units	5,000 Units	10,000 Units
January	55	37	106	51	36	7	74	77
February	23	8	54	50	38	9	69	49
March	35	20	76	48	69	2	77	82
April	34	31	102	102	70	10	77	43
May	23	11	50	31	45	3	43	59
June	35	52	70	66	5	4	29	11
July	37	7	49	37	45	5	88	63
August	99	25	140	85	254	18	336	232
September	134	41	217	170	315	2	473	333
October	81	22	110	42	357	26	636	597
November	82	31	130	103	238	17	327	397
December	81	34	124	118	152	4	237	348
	719	319	1,228	908	1,624	107	2,466	2,291

The expenditures for diphtheria antitoxin as compared with 1918 is as follows:

DIPHTHERIA TABLE NO. 3.

1918		1919	
Month.	Cost.	Month.	Cost.
January	\$ 340.90	January	\$ 485.55
February	221.65	February	373.40
March	265.25	March	521.70
April	449.35	April	388.00
May	171.00	May	347.25
June	331.65	June	115.25
July	279.85	July	466.50
August	725.70	August	1,792.70
September	1,260.95	September	2,489.25
October	482.55	October	3,905.10
November	789.10	November	2,380.90
December	802.05	December	1,927.85
Total	\$6,120.00	Total	\$15,193.45

The National Vaccine and Antitoxin Institute of Washington supplied the diphtheria antitoxin used during 1919.

DIPHTHERIA ANTITOXIN DISTRIBUTORS.

ABBEVILLE COUNTY.

Abbeville.....	McMurray Drug Co.
Donalds	Johnson Drug Co.
Due West	J. H. Bell & Son

AIKEN COUNTY.

Aiken.....	W. J. Platt & Co.
Graniteville	E. E. Platt, W. C. R. Turnbull
Lake View.....	Smith's Drug Store
Langley.....	Smith Drug Co., J. F. Baker
North Augusta.....	W. E. Mealing, M. D.
Salley	People's Pharmacy
Wagener.....	Gantt Drug Co.

ANDERSON COUNTY.

Anderson.....	Owl Drug Co., Evans Pharmacy
Belton.....	Horton's Pharmacy
Honea Path	Bolt Drug Co.
Iva	Iva Drug Co.
Pelzer	W. W. Griffin
Pendleton.....	E. G. Evans & Sons
Townville.....	J. M. Hobson, M. D.
Williamson	Buford-Griffin Co.

BAMBERG COUNTY.

Bamberg	Mack's Drug Store
Denmark.....	Denmark Drug Co.
Ehrhardt.....	Fender-Kinard Drug Co.
Olar.....	R. & H. Drug Store

BARNWELL COUNTY.

Allendale.....R. P. Searson Drug Co.
 BarnwellMace Drug Co.
 Blackville.....Epp's Pharmacy
 Fairfax.....Isaac Knops Drug Store
 Williston.....J. M. Smith & Son

BEAUFORT COUNTY.

Beaufort.....C. G. Luther
 Port Royal.....M. B. Cope

BERKELEY COUNTY.

Monck's Corner.....Monck's Corner Drug Store

CALHOUN COUNTY.

St. Matthews.....Fair's Pharmacy
 Fort Motte.....Fort Motte Drug Co.

CHARLESTON COUNTY.

Charleston....Roper Hospital, G. W. Aimar & Co., D. P. Frierson,
 C. F. Schwettman & Son, W. H. Zeigler, L. G. Melfi
 Mount Pleasant.....A. H. Patjens

CHEROKEE COUNTY.

Blacksburg.....Carolina Drug Co.
 GaffneyGaffney Drug Co.

CHESTER COUNTY.

Chester.....Chester Drug Co.

CHESTERFIELD COUNTY.

Cheraw.....T. E. Wannamaker & Sons
 Chesterfield.....D. H. Laney
 Jefferson.....Thomas Drug Co.
 McBee.....McBee Drug Co.
 Pageland.....Pennington's Pharmacy

CLARENDON COUNTY.

Jordan.....L. W. Nettles, M. D.
 Manning.....Dickson's Drug Store
 Paxville.....Thomas W. Gunter
 Summerton.....Summerton Drug Co.
 Turbeville.....C. E. Gamble
 New Zion.....E. B. Gamble, M. D.

COLLETON COUNTY.

Walterboro.....Walterboro Drug Co.

DARLINGTON COUNTY.

Darlington.....McFall's Drug Store
 Hartsville.....Robert Stewart, Jr.
 Lamar.....Palmetto Drug Co.

DILLON COUNTY.

Dillon.....Evans Pharmacy, McLaurin Drug Co.
 Latta.....E. A. Bethea
 Page's Mill.....Smith's Pharmacy

DORCHESTER COUNTY.

St. George.....P. M. Judy
 Summerville.....Tupper Pharmacy Co.

EDGEFIELD COUNTY.

Edgefield.....Penn & Holstein
 Johnston.....People's Drug Co.

FAIRFIELD COUNTY.

Ridgeway.....Ridgeway Pharmacy
 Winnsboro.....J. H. McMaster & Co.

FLORENCE COUNTY.

Florence.....F. U. Lake Drug Co.
 Lake City.....Lake City Drug Co.
 Scranton.....W. S. Lynch
 Timmons ville.....Marvin Drug Co., Cole Drug Co.

GEORGETOWN COUNTY.

Georgetown.....Iseman Drug Co.

GREENVILLE COUNTY.

Fountain Inn.....Redick's Pharmacy
 Greenville.....Carpenter Bros., L. H. Stringer
 Greer.....Corner Drug Co.
 Piedmont.....Suber Drug Co.
 Simpsonville.....Simpsonville Drug Co.

GREENWOOD COUNTY.

Greenwood.....Crawford Drug Co., Greenwood Drug Co.
 Ninety-Six.....Barr Drug Co.
 Ware Shoals.....Ware Shoals Mfg. Co. (Drug Dept.)
 Troy.....Troy Drug Store

HAMPTON COUNTY.

Estill.....Estill Pharmacy
 Hampton.....Charles A. Rush

HOBBS COUNTY.

Conway.....Conway Drug Co.

JASPER COUNTY.

Ridgeland.....A. Ritters, Jr.

KERSHAW COUNTY.

Bethune.....Bethune Drug Co.
 Camden.....W. R. Zemp

LANCASTER COUNTY.

Heath Springs.....W. T. Stover & Sons
 Kershaw.....Hays & Gregory
 Lancaster.....Standard Drug Co.

LAURENS COUNTY.

Clinton.....Keller's Drug Store
 Gray Court.....Gray Court Drug Co.
 Laurens.....Powe Drug Store and Putnam's Drug Store
 Cross Hill.....Dr. J. H. Miller

LEE COUNTY.

Bishopville.....Parker Drug Co.

LEXINGTON COUNTY.

Batesburg.....Ridgell Drug Co.
 Chapin.....J. W. Eargle
 Leesville.....Citizens' Drug Co.
 Lexington.....Palace Drug Co. and Harmon Drug Co.
 Pellon.....D. R. Kneece
 Swansea.....Swansea Drug Co.

McCORMICK COUNTY.

McCormick.....McCormick Drug Co.

MARION COUNTY.

Marion.....J. S. Davis
 Mullins.....Palace Drug Co., Kirby's Pharmacy
 Nichols.....Moody's Drug Store

MARLBORO COUNTY.

Bennettsville.....Douglas & Breeden
 Blenheim.....Napier's Drug Store
 Clio.....McLeod's Pharmacy
 McColl.....Moore Drug Co.

NEWBERRY COUNTY.

Little Mountain.....J. M. Sease
 Newberry.....Gilder & Weeks, W. G. Mayes Drug Store
 Prosperity.....Prosperity Drug Co.

OCONEE COUNTY.

Clemson College.....L. C. Martin
 Fairplay.....W. C. Mays
 Seneca.....Seneca Pharmacy
 Walhalla.....Dr. J. W. Bell
 Westminster.....Stonecyplier Drug Co.

ORANGEBURG COUNTY.

Branchville.....	W. F. McKewn
Ellore.....	P. L. Felder
Eutawville.....	E. O. Horger
North.....	People's Drug Store
Orangeburg.....	Wannamaker Drug Co.
Springfield.....	Springfield Drug Co.

PICKENS COUNTY.

Central.....	Central Drug Co.
Easley.....	Palmetto Pharmacy
Liberty.....	Hunter's Pharmacy
Pickens.....	Pickens Drug Co.

RICHLAND COUNTY.

Columbia....	Blanding Street Drug Store, McGregor's Drug Store, Taylor Drug Co., Wingfield's Pharmacy
New Brookland.....	Burnett & Whetsell

SALUDA COUNTY.

Ridge Spring.....	Ridge Drug Co.
Saluda.....	Saluda Drug Co.

SPARTANBURG COUNTY.

Campobello.....	Campobello Drug Co.
Converse.....	Peoples' Drug Store
Cowpens.....	Cowpens Drug Co.
Inman.....	Inman Drug Co.
Landrum.....	W. M. Lamright
Pacolet.....	Pacolet Mfg. Co.
Spartanburg.....	Arthur Irwin, Ligon's Drug Store, K.-W.-N. Pharmacy, Todd Drug Co.
Woodruff.....	O. E. Westmoreland

SUMTER COUNTY.

Mayesville.....	King & Gardner, Bradley & Thomas
Sumter.....	Sibert's Drug Store

UNION COUNTY.

Jonesville.....	Jonesville Drug Co.
Union.....	People's Drug Store, Glymph's Pharmacy
Carlisle.....	Carlisle Drug Co.

WILLIAMSBURG COUNTY.

Greelyville.....	Service Drug Co.
Johnsonville.....	Cockfield Drug Co.
Kingstree.....	Gamble & Jacobs, Kingstree Drug Co.

YORK COUNTY.

Clover.....	Clover Drug Co.
Fort Mill.....	Lyties Drug Co.
Rock Hill.....	Rock Hill Drug Co.
Sharon.....	Sims Drug Co.
Yorkville.....	York Drug Co.

TYPHOID FEVER.

We are doing a great work in combatting typhoid fever in South Carolina. The death rate has been reduced from 31 per 100,000 to 21.9 in 1919, due to persistent efforts showing the methods by which typhoid may be controlled, and to advice as to how to construct sewage disposal plants. There were, however, 360 deaths from typhoid fever during 1919 against 485 in 1918. We distributed \$3,531.42 in typhoid bacterin during 1919, representing the inoculation of 11,771 people.

Upon the occurrence of an epidemic in a community, we send out the following rules for preventing typhoid fever:

For the Individual:

1. Keep away from all known or suspected cases of typhoid.
2. Wash hands thoroughly before meals. Do not use "roller towels."
3. Use drinking water only from sources known to be pure, or, if this is not possible, use water that has been purified by municipal filtration or by hypochlorite treatment or by boiling in the household.
4. Avoid bathing in polluted water.
5. Use pasteurized or boiled, instead of raw milk.
6. Select and clean vegetables or berries, that are to be eaten raw, with greatest care.
7. Avoid eating "fat" raw oysters, and in general, oysters and other shell-fish whose origin is not known.
8. Be vaccinated against typhoid in all cases in which any special exposure is known or feared.

For the Community:

1. Insist on the hearty co-operation of all persons with an efficient health officer.
2. Require notification and a reasonable degree of isolation of every known or suspected typhoid case.
3. Exercise strict control over the disinfection of known typhoid excreta.
4. Insist on pure or purified water supplies.

5. Require pasteurization of milk supplies.
6. Regard all human excreta as possibly dangerous, and control their disposition in such a way to prevent contamination of food and drink.

TUBERCULOSIS.

A full report, giving an account of the South Carolina Sanatorium, is to be found elsewhere in this volume. We are very proud of this institution. We are also doing educational work throughout the State in the methods of preventing tuberculosis and in the necessity of early treatment. There were exactly the same number of deaths, namely 1,636, in 1919 as in 1918, the rate being 99.5 per 100,000 population.

Tables are appended showing the deaths from all forms of tuberculosis in 1918 and 1919, for the first ten months in each year.

DEATHS FROM TUBERCULOSIS, ALL FORMS, IN THE FOLLOWING COUNTIES FOR TEN MONTHS ENDING OCTOBER 31, 1918.

Counties	Population	Number
Abbeville	35,829	14
Aiken	43,904	41
Anderson	79,670	49
Bamberg	19,454	6
Barnwell	34,209	21
Beaufort	30,355	23
Berkeley	23,487	13
Calhoun	18,682	17
Charleston	89,022	145
Cherokee	29,698	24
Chester	30,017	25
Chesterfield	30,607	16
Clarendon	35,110	25
Colleton	36,804	4
Darlington	39,879	38
Dillon	25,682	15
Dorchester	19,058	11
Edgefield	30,327	5
Fairfield	29,454	19
Florence	40,925	59
Georgetown	22,270	18
Greenville	79,244	96
Greenwood	38,519	24
Hampton	26,138	12
Horry	29,646	14
Jasper (included in Beaufort and Hapton).....		6
Kershaw	29,991	18
Lancaster	28,358	31
Laurens	44,593	37
Lee	28,025	22
Lexington	35,985	18
Marion	23,390	20
Marlboro	33,780	40
Newberry	37,801	44
Oconee	30,041	21
Orangeburg	62,775	57
Pickens	29,836	17
Richland	62,115	121
Saluda	22,385	13
Spartanburg	96,534	99
Sumter	42,586	45
Union	33,129	32
Williamsburg	41,962	34
York	52,122	63
McCormick (included in Abbeville, Edgefield and Greenwood)		4
	1,643,205	1,476

DEATHS FROM TUBERCULOSIS, ALL FORMS, IN THE FOLLOWING
COUNTIES FOR TEN MONTHS ENDING OCTOBER 31, 1919.

Counties	Population	Number
Abbeville	35,829	15
Aiken	43,906	29
Anderson	79,670	50
Bamberg	19,454	13
Barnwell	34,209	13
Beaufort	30,355	14
Berkeley	23,487	9
Calhoun	18,682	14
Charleston	89,022	100
Cherokee	29,698	24
Chester	30,017	20
Chesterfield	30,607	19
Clarendon	35,110	23
Colleton	36,804	7
Darlington	39,879	35
Dillon	25,682	5
Dorchester	19,058	15
Edgefield	30,327	16
Fairfield	29,454	20
Florence	40,925	40
Georgetown	22,270	30
Greenville	79,244	112
Greenwood	38,519	25
Hampton	26,138	18
Horry	29,646	7
Jasper (included in Beaufort and Hampton).....		2
Kershaw	29,991	26
Lancaster	28,358	31
Laurens	44,593	38
Lee	28,025	24
Lexington	35,985	13
Marion	23,390	18
Marlboro	33,780	36
Newberry	37,801	37
Oconee	30,041	15
Orangeburg	62,775	48
Pickens	29,836	19
Richland	62,115	111
Saluda	22,385	6
Spartanburg	96,534	179
Sumter	42,586	49
Union	33,129	21
Williamsburg	41,962	29
York	52,122	59
McCormick (included in Abbeville and Greenwood)...		12
Allendale (included in Barnwell and Hampton).....		20
	1,643,205	1,466

MEASLES.

The death rate from this disease was astonishingly low in 1919, there being 7 deaths as compared with 79 the year before. The exceptionally high rate for 1918 was due to the concentration of troops in camps. It is rarely that a person dies of measles alone, and we must look under the head of broncho-pneumonia to see where the danger of measles lies. This is the usual cause of death as a complication of measles. Measles also predisposes to tuberculosis.

We print again the methods found best for the control of measles, as follows:

(A) *The Infected Individual and His Environment:*

1. Recognition of the disease—clinical symptoms. Special attention to the rise of temperature. Koplik spots and catarrhal symptoms in exposed individuals.

2. Isolation—during period of communicability.

3. Immunization—none.

4. Quarantine—exclusion of exposed susceptible school children and teachers from school until 14 days from last exposure. This applied to exposure in the household. Exclusion of exposed susceptible children from all public gatherings for the same period.

5. Concurrent disinfection—thorough cleansing.

(B) *General Measures:*

1. Daily examination of exposed children and of other possibly exposed persons. This examination should include record of the body temperature. A non-immune exposed individual exhibiting a rise of temperature of 100° F. or more should be promptly isolated pending diagnosis.

2. Schools should not be closed or classes discontinued where daily observation of the children by a doctor or nurse is available.

3. Education as to special danger of exposing young children to those exhibiting acute catarrhal symptoms of any kind.

WHOOPIING COUGH.

Whooping cough showed 68 deaths in 1919 against 288 in 1918, a tremendous reduction. We hope that this is an indication that people are beginning to guard their children under two years against the disease. Placarding of houses will at least keep people with young infants from visiting where there is danger of exposure. It is believed that the wearing of a band on the arm marked "whooping cough" would be advantageous in preventing the spread of this disease. This method is carried out in Chicago.

ANTERIOR POLIOMYELITIS (Infantile Paralysis.)

Infantile paralysis showed 14 deaths as compared with 8 in 1918. It must be remembered, however, that the death rate from

this disease is not very high, and the number of cases far exceeds the number of deaths. The tragedy is that all those who survive are hopelessly crippled for the remainder of their lives.

CEREBRO-SPINAL MENINGITIS.

There were only 42 deaths in 1919 from this disease as compared with 207 in 1918. Through the prompt administration of the serum many lives were saved. Antimeningococcic serum is furnished free by the State Board of Health upon application of a physician.

MALARIA.

Not much systematic work was done on malaria in the State during the year. This disease constitutes a great menace to the economic welfare of South Carolina, and I feel sure the State will assist us during the coming year by appropriating funds to be used in demonstrating that this disease can be controlled in given areas if money is furnished.

Following is the report of the Subcommittee on Medical Research of the National Malaria Committee of the United States Public Health Service:

"The Subcommittee on Medical Research of the National Malaria Committee presents the following as a standard method of treatment of malaria for the purpose of curing the patient of his infection, and recommends its general use by the medical profession. We believe that this treatment will, in the great majority of cases, prevent relapses in the patients themselves and also prevent transmission of infection to others.

"Our opinion is based largely upon the results of the treatment by this method, under average conditions, in their homes, of a large number of persons infected with malaria.

"For the acute attack 10 grains quinine sulphate by mouth three times a day for a period of at least three or four days, to be followed by 10 grains every night before retiring for a period of eight weeks. For infected persons not having acute symptoms at the time, only the eight weeks' treatment is required.

"The proportionate doses for children are: Under one year, 1-2 grain; one year, 1 grain; two years, 2 grains; three and four years, 3 grains; five, six and seven years, 4 grains; eight, nine and ten years, 6 grains; eleven, twelve, thirteen and fourteen years, 8 grains; fifteen years or older, 10 grains.

"It is not claimed that this is a perfect or even the best treatment in all cases, but it is our belief that it is a good and satisfactory method for practical use to prevent relapse and transmission to other people."

If the method outlined above is carried out it is believed that we can successfully combat malaria.

PELLAGRA.

Pellagra is ceasing to be of the importance it once was to the epidemiologist. There were 356 deaths reported in 1919 against 653 in 1918. Following are tables showing the deaths by counties during the first ten months in 1918 and 1919:

PELLAGRA TABLE NO. 1.

DEATHS FROM PELLAGRA IN THE FOLLOWING COUNTIES FROM JANUARY 1ST, TO OCTOBER 31ST, 1918.

Counties.	Population.	Number.
Abbeville	35,829	4
Aiken	43,904	8
Anderson	79,670	28
Bamberg	19,454	1
Barnwell	34,209	4
Beaufort	30,355	5
Berkeley	23,487	5
Calhoun	18,682	3
Charleston	89,022	80
Cherokee	29,698	13
Chester	30,017	17
Chesterfield	30,607	3
Clarendon	35,110	6
Colleton	36,804	9
Darlington	39,879	16
Dillon	25,682	4
Dorchester	19,058	8
Edgefield	30,327	1
Fairfield	29,454	6
Florence	40,925	24
Georgetown	22,270	10
Greenville	79,244	33
Greenwood	38,519	19
Hampton	26,138	3
Horry	29,646	2
Jasper (included in Beaufort and Hampton)		
Kershaw	29,991	2
Lancaster	28,358	10
Laurens	44,593	13
Lee	28,025	9
Lexington	35,985	7
Marion	23,390	10
Marlboro	33,780	8
Newberry	37,801	11
Oconee	30,041	8
Orangeburg	62,775	14
Pickens	29,836	9
Richland	62,115	54
Saluda	22,385	2
Spartanburg	96,534	31
Sumter	42,586	20
Union	33,129	4
Williamsburg	41,962	11
York	52,122	19
McCormick (included in Abbeville, Edgefield and Greenwood)		4
	1,643,205	558

PELLAGRA TABLE NO. 2.

DEATHS IN SOUTH CAROLINA FROM PELLAGRA FOR TEN MONTHS
ENDING OCTOBER 31ST, 1919.

Counties.	Population.	Number.
Abbeville	35,829	2
Aiken	43,904	4
Anderson	79,670	13
Bamberg	19,454	3
Barnwell	34,209	2
Beaufort	30,355	2
Berkeley	23,487	..
Calhoun	18,682	1
Charleston	89,022	54
Cherokee	29,698	2
Chester	30,017	6
Chesterfield	30,607	3
Clarendon	35,110	5
Colleton	36,804	..
Darlington	39,879	..
Dillon	25,682	3
Dorchester	19,058	3
Edgefield	30,327	7
Fairfield	29,454	2
Florence	40,925	12
Georgetown	22,270	2
Greenville	79,244	17
Greenwood	38,519	9
Hampton	26,138	2
Horry	29,646	..
Jasper (included in Beaufort and Hampton)	..	..
Kershaw	29,991	5
Lancaster	28,358	1
Laurens	44,593	7
Lee	28,025	6
Lexington	35,985	4
Marion	23,390	3
Marlboro	33,780	6
Newberry	37,801	2
Oconee	30,041	2
Orangeburg	62,775	7
Pickens	29,836	4
Richland	62,115	52
Saluda	22,385	2
Spartanburg	96,534	17
Sumter	42,586	3
Union	33,129	3
Williamsburg	41,962	11
York	52,122	8
McCormick (included in Abbeville and Greenwood)	..	1
Allendale (included in Barnwell and Hampton)	..	..
	1,643,205	303

INFLUENZA.

The influenza epidemic, which began in September, 1918, continued into January, February and March of 1919, and took a tremendous toll of our citizens. The number of deaths reported as due to influenza amounted to 883. But to arrive at the real loss to the State in lives of citizens we must take into account the deaths reported from all forms of pneumonia, influenza and grip. Let us compare 1917, 1918 and 1919 as follows:

	1917.	1918.	1919.
Pneumonia	1,064	4,444	1,948
Broncho-pneumonia	388	2,310	1,005
Hypostatic pneumonia	11	10	15
Influenza and grip	..	1,742	883
Totals	1,463	8,506	3,851

While the total in 1919 was far below that of 1918, it is far above that of 1917, when there were no cases of influenza or grip reported. We much fear a recurrence of the epidemic in 1920, but it is believed that it will be of a milder type, and that there will be fewer deaths from the disease.

MINUTES

Columbia, S. C., January 28, 1919.

At a special meeting of the Executive Committee of the State Board of Health held in the office of the State Board of Health, Columbia, S. C., January 28, 1919, at which the following were present, Dr. Robert Wilson, Jr., chairman; Dr. E. A. Hines, Dr. W. M. Lester, Dr. C. C. Gambrell, Dr. William Egleston, Dr. W. W. Dodson, and the Secretary, the following suggestions were favored:

By Dr. Egleston: The wearing of masks by all persons coming in contact with influenza patients, the mask to consist of eight thicknesses of gauze, and should be about the size six by eight inches, and so marked that the same side will be put to the mouth each time the mask is worn. To render it efficient the mask must be sterilized each day.

Dr. Gambrell advised that all patients and nurses or attendants be isolated and the houses placarded; also that all contacts be kept under supervision or quarantine five days before being released to attend school or public places, and that the public in general be advised to cover the mouth with the handkerchief or gauze when coughing or sneezing.

It was also advised that patients go to bed and stay in bed not less than five days after the return to normal temperature.

Dr. Egleston advised that this Board go on record to this effect: That so long as a patient is handled according to these suggestions the State Board of Health regards the closing of churches, schools and theatres as not necessary, and can be left to the individual community, with this assurance, that the State Board of Health is prepared to see that it is rightly enforced if authorized by local authorities.

Dr. Lester favored the discouraging of gatherings of people in any crowd.

The Board recognized that rural communities offer a different proposition from that of thickly settled areas. Dr. Robert Wilson suggested that in rural districts where the schools constitute the only point of contact it would be advisable to close them, unless the quarantining of patients, wearing of masks, and other regulations be enforced and it was realized that such enforcement would be difficult. It was also stated that the enforcement of these regulations would be more satisfactory than the closing of schools. But when the regulations cannot be enforced, closing of schools and churches may be resorted to.

The lifting of quarantine from communities which had been placed under restrictions came up for discussion. It was decided that all places under quarantine may be released by having a petition addressed to the State Board of Health setting forth the conditions as existing; if the conditions as set forth are such as, in the opinion of the Board, to warrant the lifting of the quarantine, the sheriff of the county will be instructed by the State Health Officer to that effect and the quarantine will be lifted. The petition should be signed by persons in position to know the actual conditions in the community.

JAS. A. HAYNE, M. D., Secretary.

Attested.

Columbia, S. C., March 20, 1919.

A call meeting of the Executive Committee of the State Board of Health was held March 20th, for the purpose of making plans for the coming year and expenditure of funds appropriated by the General Assembly. Meeting held in office of Secretary at 10:00 a. m., with the following members present: Drs. Robt. Wilson, Jr., Wm. Egleston, E. A. Hines, D. B. Frontis, Wm. Lester, and W. W. Dodson.

The Secretary called the attention of the Board to the illness of Miss Julia P. Tompkins, who had been serving the Board since 1908. Deep sympathy was expressed for her affliction, and the Secretary was authorized to make such arrangements to take care of her work while she was ill as funds would permit.

The next matter brought before the Board was the selection of an architect for the colored ward to be built at State Park, and for a dairy barn to be erected at the same place. C. C. Wilson

was elected architect for the colored ward, and Geo. E. Lafaye for the dairy barn, and the Tuberculosis Committee of the State Board of Health will meet in May to consider bids. The Secretary was authorized to have plans and specifications prepared and to let bids for same.

Mrs. Ruth A. Dodd was elected Director of the Bureau of Child Hygiene at a salary of \$1,800.00 per annum, and necessary traveling expenses. She was also elected to the position of Supervisor of Public Health Nurses for South Carolina. The duties of the latter office being to supervise all public health nurses employed in South Carolina, especially those paid in whole or in part by the State of South Carolina. Her further duties were to see that a systematic reporting of their activities should be made to her monthly.

It was moved by Dr. E. A. Hines that all concerned in securing the appropriation for the Bureau of Child Hygiene should be especially thanked.

It was moved by Dr. Egleston that the heads of all departments of the State Board of Health submit brief reports of their activities for the first quarter of the year, and proposed activities for the coming quarter.

Dr. C. V. Akin made a report of the amount of funds appropriated for his department, and outlined his work for the coming year.

The resignation of Dr. D. B. Frontis was accepted with regret, and Dr. R. A. March, of Edgefield, was unanimously elected to succeed him.

The Secretary was authorized to make the following raises in salary: Miss Carrie Spivey, Head Nurse S. C. Sanatorium, \$60.00; Miss Clara Wood, Housekeeper, \$60.00; William Adams, Mechanic, \$40.00, and C. W. Miller, Chief Clerk, Bureau Vital Statistics, \$166.66.

A report was read by Dr. L. A. Riser, and it was moved and seconded, that Dr. Riser endeavor to secure co-operation from the dentists of the State with a view to establishing a traveling dental clinic for schools.

Mr. J. R. Cain, Acting Director of the Laboratory, reported a great increase in the number of Wasserman tests, and requested that more space be obtained for the laboratory. A committee

consisting of Drs. Hayne, Lester and Eggleston was appointed to endeavor to secure more space for this purpose.

A committee consisting of Drs. Robt. Wilson and James A. Hayne was appointed to make a contract for diptheria anti-toxin, typhoid bacterin, and smallpox vaccine for the coming year.

Dr. C. V. Akin made a report on lethargic encephilitis (sleeping sickness.)

It was moved by Dr. E. A. Hines that Dr. G. E. Neal be elected acting epidemiologist at a salary of \$1,800.00 a year, to be paid out of the contingent fund.

There being no further business the Board adjourned to meet in Florence for the Annual Meeting.

JAS. A. HAYNE, M. D., Secretary.

Attested.

Florence, S. C., April 14, 1919.

The annual meeting of the Executive Committee of the South Carolina State Board of Health was held at 9:00 p. m., April 14th, 1919, in the Florence Hotel, Florence, S. C., with the following members present: Drs. C. C. Gambrell, Wm. Eggleston, R. A. Marsh, W. M. Lester, E. A. Hines, W. W. Dodson, and James A Hayne, Secretary and State Health Officer.

The first business before the Board was the election of officers for the coming year. Dr. Robt. Wilson, Jr., was elected Chairman, and Dr. James A. Hayne was elected Secretary and State Health Officer. Ordinary business was transacted.

Dr. L. A. Riser presented his resignation as Director of Rural Health Work in South Carolina. The Board declined to take action at this meeting, but a special meeting of the Executive Committee was called for the purpose of considering the resignation.

There being no further business, the Board adjourned to meet at the call of the chairman.

JAS. A. HAYNE, M. D., Secretary.

Attested.

Columbia, S. C., April 24, 1919.

A special meeting of the Executive Committee of the State Board of Health was held April 24th, 1919, at 9:00 p. m., in the office of the Secretary, 512 Palmetto Building, Columbia, S. C.

The following members were present: Drs. Robt. Wilson, Jr., Chairman; Wm. Egleston, C. C. Gambrell, R. A. Marsh, E. A. Hines, W. W. Dodson, and James A. Hayne, Secretary.

After hearing a report from Dr. L. A. Riser of the work done during the year, and also a report from Mrs. Ruth A. Dodd of the work proposed to be done by her, the Board decided not to accept the resignation of Dr. L. A. Riser, and the following resolution was adopted, introduced by Dr. Wm. Egleston and passed by the Board:

"Resolved, That the letterheads of the State Board of Health and the different departments be rearranged, so that they may show the State Health Officer and Secretary as the head director of all departments, and such employees as may be working in these departments under him as director be called assistants, superintendents, or field workers, as the case may be. That all such assistants, superintendents, or field workers be required to act under the direct orders of the State Health Officer; that all correspondence pertaining to their work come to the Health Officer, and copies of all letters written in connection with this work be submitted to him for filing; that their movements be by and under his direction, and that reports be made monthly to the State Health Officer of all activities of these workers each month."

There being no further business the Board adjourned.

JAS. A. HAYNE, M. D., Secretary.

Attested.

Columbia, S. C., May 27, 1919.

The sub-committee of the Executive Committee of the State Board of Health for the South Carolina Sanatorium convened on May 27th, 1919, at noon, in the office of the Secretary, 512 Palmetto Building, Columbia, S. C., for the purpose of consid-

ering bids for the erection of a dairy at the Sanatorium, as authorized by the General Assembly.

The following members of the committee were present: Drs. Robt. Wilson, Jr., Wm. Egleston, C. C. Gambrell, W. M. Lester, and the Secretary, James A. Hayne.

Bids were opened. Lowest bid was from W. B. Summersett. This was accepted by the committee.

There being no further business the committee adjourned.

Attested.

JAS. A. HAYNE, M. D., Secretary.

Columbia, S. C., July 10, 1919.

The regular quarterly meeting of the Executive Committee of the State Board of Health was held on July 10, 1919, at 12 o'clock, noon, with the following members present: Drs. Robert Wilson, Jr., C. C. Gambrell, William Egleston, R. A. Marsh, Wm. Lester, W. W. Dodson, and the Secretary.

The first business before the Board was the consideration of the plan offered by the U. S. P. H. Service and the International Health Board for malarial work in certain cities of the State. The Executive Committee authorized the co-operation of the State Board of Health, through its Secretary, with the U. S. P. H. Service and the International Health Board.

The Executive Committee was notified by the Secretary of the death of Miss Julia P. Tompkins, clerk. The Board appointed a committee, Drs. Wm. Lester and James A. Hayne, to draw up suitable resolutions to be published in the daily press, sent to the family, and a page on the Minutes set aside for these resolutions.

Miss E. W. Grieshaber was elected clerk of the State Board of Health to succeed Miss Tompkins.

It was moved and seconded that Mrs. Ruth A. Dodd be allowed to employ an assistant supervisor of public health nursing.

Bids were opened for the erection of a ward for colored tuberculosis patients at State Park. The smallest bid was \$23,000.00, which was in excess of the money appropriated by the Legislature. Mr. C. C. Wilson, architect, Mrs. A. I. Rembert, Field Secretary of the Sanatorium, and the State Health Officer were appointed a committee to make such arrangements as could be made with W. B. Summersett, contractor, to build as much as possible of the ward with the funds on hand.

Dr. William Egleston moved, seconded by Dr. C. C. Gambrell, that Dr. C. V. Akin be elected Assistant State Health Officer, and that the thanks of the Board be tendered Dr. Akin for valuable assistance rendered during the illness of the State Health Officer.

Dr. Napier complained to the committee in regard to conditions existing at Blenheim, the alleged cause being the cutting of timber by C. S. Whipple. After consideration of the matter, the State Health Officer was authorized to investigate conditions at Blenheim, take such steps as may seem necessary, and to make a full report of same at the next meeting of the Executive Committee.

There being no further business, the Board adjourned to meet at the call of the chairman.

JAS. A. HAYNE, M. D., Secretary.

Attested.

Columbia, S. C., September 12, 1919.

A special meeting of the Executive Committee of the State Board of Health was held on September 12, 1919, at 10 a. m., in the office of the Secretary, with the following members present: Drs. Robert Wilson, Jr., Chairman; R. A. Marsh, C. C. Gambrell, E. A. Hines, Wm. Egleston, W. W. Dodson, W. M. Lester, James A. Hayne, Secretary.

The purpose of the meeting was to consider the budget for the year 1920. A committee consisting of Drs. W. M. Lester and James A. Hayne was appointed to compile a budget.

It was moved by Dr. Hines that a request be made to the Legislature that the salary of the State Health Officer be made \$4,000.00 per year.

The advisory committee of the Bureau of Child Hygiene met with the Board, the following members being present: Drs. E. A. Hines, William Weston, and R. M. Pollitzer. This committee conferred with Mrs. Ruth A. Dodd, in charge of the Bureau of Child Hygiene. A resolution was passed that no literature be sent out from the Bureau of Child Hygiene without first being approved by the advisory committee in plenary session.

A committee was appointed consisting of Drs. Hines and Les-

ter and the advisory committee to draw up regulations in regard to the practice of midwives.

There being no further business, the Board adjourned.

JAS. A. HAYNE, M. D., Secretary.

Attested.

Columbia, S. C., October 22, 1919.

The regular quarterly meeting of the Executive Committee of the State Board of Health was held on October 22, 1919, at noon, in the office of the Secretary, with the following members present: Dr. Robert Wilson, Jr., Chairman; Dr. William Egleston, Dr. C. C. Gambrell, Dr. E. A. Hines, Dr. R. A. Marsh, Dr. W. W. Dodson, Dr. W. M. Lester, and the Secretary.

The business before the Executive Committee was the reports of standing committees, which were read, namely, the report of the Committee on Sanitary Inspection of State Schools and Colleges, and the report of the Committee on Sanitary Inspection of State Penal and Charitable Institutions. These reports were received as information and ordered printed in the Annual Report.

Dr. Hines moved that the plans for the laboratory and infirmary of the new Citadel be submitted to the State Board of Health.

Dr. Hines moved that regulations governing the practice of midwives, similar to those adopted by New York, should be formulated and promulgated as rules and regulations of the State Board of Health.

On motion the following delegates were nominated to attend the meeting of the American Public Health Association at New Orleans: Dr. Hines, Dr. Lester, Dr. Egleston.

Dr. Egleston moved that the United States Public Health Service be requested to send a man to the State Laboratory to standardize the Wassermann tests being made by the laboratory.

It was moved by Dr. Gambrell that the State Health Officer send copies of the reports submitted at this meeting to the officers of the respective institutions affected.

It was moved and seconded that the State Health Officer apply to the Surgeon General for an eye specialist to be sent to enquire into alleged trachoma in South Carolina.

There being no further business before the Board, the meeting was adjourned to meet at the call of the chairman.

JAS. A. HAYNE, M. D., Secretary.

Attested.

Columbia, S. C., December 30, 1919.

The regular quarterly meeting of the Executive Committee of the State Board of Health was held in the office of the Secretary at noon, December 30, 1919, with the following members present: Dr. Robert Wilson, Jr., Chairman; Dr. William Egleston, Dr. C. C. Gambrell, Dr. E. A. Hines, Dr. R. A. Marsh, Dr. W. W. Dodson, Dr. W. M. Lester, and the Secretary.

The reports from the various divisions of the State Department of Health, covering their activities and work accomplished during the year 1919, were read and received as information, and ordered printed in the Annual Report.

Dr. J. L. Goodwin, United States Public Health Service, sent to this State in response to a request to the Surgeon General for an eye specialist to examine alleged trachoma cases in several counties of the State, and Dr. C. L. Kibler of Columbia were present, and reported on the trachoma situation in Newberry County.

It was moved by Dr. Egleston and seconded by Dr. Marsh that Dr. McMullen's report on the situation in Newberry County be accepted as final, and that the State Health Officer take such action as may be necessary to protect such children and citizens of Newberry County as should be exposed to the disease.

Dr. Hines presented a plan for co-operation with the University of South Carolina, the State Medical College, and other educational institutions, and the State Department of Health, to deliver a series of lectures on public health, sociology, and other kindred topics, thus giving a post-graduate course to the medical men of the State. This plan was approved by the Executive Committee.

It was moved by Dr. Hines and seconded by Dr. Marsh that those in charge of the different divisions of the Department be congratulated upon the excellent showing of the work done in 1919.

It was moved by Dr. Egleston and seconded by Dr. Gambrell that the State Health Officer write a letter to the Governor urging the necessity of a State Sanitary Engineer.

There being no further business before the Board, the meeting was adjourned to meet at the call of the chairman.

JAS. A. HAYNE, M. D., Secretary.

Attested.

REPORT OF COMMITTEE ON SANITARY INSPECTION OF STATE PENAL AND CHARITABLE INSTITUTIONS.

Committee: C. C. Gambrell, M. D., Chairman; Wm. Egles-
ton, M. D.; W. M. Lester, M. D.

Sanitary Inspection of the Reformatory for Colored Boys, Lexington County.

On our visit to the Reformatory for Colored Boys we found that very few improvements had been made since last year. The barns and the guards' quarters have been repaired, and a new range has been ordered for the kitchen.

We would again strongly call attention to the crowded condition of the inmates in this institution. A hundred and eighty boys are crowded into two rooms, two and three sleeping in one bed. This is not conducive to health.

These rooms are heated, as heretofore, by open fireplaces. These fireplaces smoke dreadfully, and the danger of fire breaking out is very great. The place is lighted by kerosene lamps, which also add to the fire risk.

We would strongly recommend more space and better heating and lighting arrangements. We would also suggest better hospital facilities for the treatment of the sick.

C. C. GAMBRELL, M. D., Chairman.
WM. EGLESTON, M. D.
W. M. LESTER, M. D.

Sanitary Inspection of State Industrial School, Lexington, S. C.

We also visited the State Reformatory for White Girls. These buildings are very nice in every particular, and are well built. One building is almost completed, but a good deal of work is yet necessary to put the other one in shape to be occupied. Neither building is yet occupied.

C. C. GAMBRELL, M. D., Chairman.
WM. EGLESTON, M. D.
W. M. LESTER, M. D.

Sanitary Inspection of Confederate Soldiers' Home, Columbia, S. C.

On our visit to the Confederate Soldiers' Home we found conditions quite satisfactory, and would ask for no further appropriation this year for this building. The beds are being repainted; the kitchen and the hall leading to the kitchen are being recal-somined and repainted.

There are sixty-three inmates in the institution. Among these are several old men who are now very feeble, but there is very little acute illness. They have a white steward and one colored male and one colored female nurse. In case of severe illness, we were told, a white trained nurse is employed.

C. C. GAMBRELL, M. D., Chairman.

WM. EGLESTON, M. D.

W. M. LESTER, M. D.

Sanitary Inspection of State Hospital for the Insane, Columbia, S. C.

The improvements recited in our report on the State Hospital for the Insane last year have been continued during the present year. On the date of our inspection, October 21, we found one section of the main building, comprising Wards One, Two and Three, and the Talley Building under process of remodeling. We were informed by the superintendent that these quarters would be completed and ready for occupancy on or soon after January 1, 1920. This will complete the program of remodeling for the white female department, and this entire department will then have been rebuilt in accordance with the modern requirements for the insane. New plumbing and baths have been installed throughout, and are sanitary in every particular. The floors and walls are tile and can easily be kept clean.

No further improvements have been made in the white male quarters. All the wards for these patients, except those housed in the Taylor Building, have been remodeled in the same manner as those for the white females. It is the purpose of the Board of Regents to ask for funds to remodel this building the coming year, and we would strongly recommend that they be granted, as this building is not modern and cannot be kept sanitary with the facilities at hand.

No improvements have been made during the year in the quarters for the colored patients. It is the present plan of the

Board of Regents to segregate all the colored patients at State Park, and it is hoped that work in this direction will be started in 1920.

The kitchen and dining rooms were found in excellent condition, as were also all the wards.

Fire protection has been improved by the addition of hook and ladder, reel, chemical engine, and fire company composed of the employees.

The dairy is in splendid sanitary condition, and the cows are regularly tested for tuberculosis. A pasteurizing plant has been installed, and all milk will be pasteurized, further safeguarding an already well protected milk supply.

There is a shortage in the nursing force, more female nurses being needed; also a shortage of other female employees.

C. C. GAMBRELL, M. D., Chairman.

WM. EGLESTON, M. D.

W. M. LESTER, M. D.

Sanitary Inspection of the State Penitentiary, Columbia, S. C.

We found conditions at the Penitentiary about as they were last year. They are quite satisfactory with one or two very important exceptions. We would most earnestly impress upon the Legislature the importance of a new building for the women prisoners. The building in which they are now kept, and have been kept for years past, is a disgrace to the State of South Carolina, and a fire trap of the very worst kind. This building was condemned last year by Chief May of the Columbia fire department. Should a fire break out on the first floor of this building the women confined in it would hardly have any chance of escape.

We would also earnestly suggest the need of sterilizers and other operating room equipment in the hospital of the Penitentiary. A good many prisoners who are now useless can be rendered able to work if they can have certain operations done. This work cannot be done with the present operating room equipment. We also suggest the need of a dentist for the prisoners. All the dental work done, with the exception of the extraction of teeth, has to be done by dentists from the city and paid for by prisoners themselves.

C. C. GAMBRELL, M. D., Chairman.

WM. EGLESTON, M. D.

W. M. LESTER, M. D.

*Sanitary Inspection of the South Carolina Industrial School,
Florence, S. C.*

Your committee inspected this school on December 21, 1919.

This institution continues to show the physical improvement that has characterized it to a marked degree during the last few years, and, of course, this contributes to the sanitary and hygienic conditions surrounding the inmates. The health of the boys is and has been quit good during the past year, and there has been no death in the institution.

The diet has shown steady improvement and is quite liberal and varied, the boys evidencing good care and good food. The new dining hall and kitchen, recommended after these inspections for some years past, are nearly completed, and will be model in every way.

The hospital building has been commenced and, when completed, will also be quite an addition to the plant. Its arrangement is excellent.

Attention is directed to the fact that the old and the new buildings are without any sort of fire escapes, and, indeed, the entire plant is without fire protection of any sort. This is a violation of the State laws in regard to fire escapes for all institutions. It is a short sighted policy also not to have so large an investment safeguarded from fire to some degree. The buildings are in no sense fireproof, and a fire in any of them would result disastrously if after bed time. Some way ought to be found for making easy escape from the dormitories in case of fire. The plant itself could be protected by filling the large water tank on the premises and organizing a fire company among the older boys, with regular practice drills.

C. C. GAMBRELL, M. D., Chairman.

WM. EGGLESTON, M. D.

W. M. LESTER, M. D.

REPORT OF COMMITTEE ON SANITARY INSPECTION
OF STATE SCHOOLS AND COLLEGES.

Committee: E. A. Hines, M. D., Chairman; R. A. Marsh, M. D.

*Sanitary Inspection of the Medical College of the State of South
Carolina, Charleston, S. C.*

The Medical College was inspected October 20, 1919. We noted a number of improvements in the various departments in

which sanitary conditions must be kept under control, such as the anatomical laboratories and the department of bacteriology. A new animal house has been built. The recommendation of your committee as to beautifying the campus has been acted upon, and the lawn set in grass.

E. A. HINES, M. D., Chairman.

R. A. MARSH, M. D.

*Sanitary Inspection of the South Carolina Military Academy,
Charleston, S. C. (The Citadel).*

The Citadel was inspected October 21, 1919. The health of the cadet corps was most excellent, there being only one or two cases of minor illness in the infirmary. The infirmary is especially well managed, the arrangements being modern in every respect.

The toilet facilities under construction at our last visit have been completed, but we regret to note that the mechanical working of the same is not as satisfactory as should be the case. We recommend that they be properly screened.

The food given the cadets constituted a well balanced ration.

The plans for the new Citadel, we understood, were well under way. Your committee especially recommends that these plans be submitted to the State Board of Health for their approval of all sanitary features, in order that nothing be left undone to make this great military college an ideal institution for the protection of the health of the future students thereof.

E. A. HINES, M. D., Chairman.

R. A. MARSH, M. D.

*Sanitary Inspection of Winthrop Normal and Industrial College,
Rock Hill, S. C.*

Winthrop College was visited October 20, 1919, and a thorough inspection made of sanitary conditions and special note taken of the numerous improvements going on. The health of the student body was excellent, there being very few cases of illness in the infirmary. The infirmary itself is a splendid institution, well managed, and modern in every respect.

The new dormitory, nearing completion, appears to be constructed along the most modern sanitary lines, leaving little to be desired for an up-to-date institution.

Your committee was highly gratified to note that the recommendation of several years standing, that a new dairy barn was

imperative, is now being acted upon, and the barn recommended is now in course of construction. Your committee examined the place carefully, and found that, when completed, this dairy barn will be a model, not only for South Carolina but for institutions elsewhere to follow, the plans having been drawn by an expert of unusual ability and wide experience.

Upon our recommendation plans for remodeling the abattoir were immediately made, and as this report goes to press we are informed that the work has been completed and the slaughterer will now compare favorably with any in the State.

The question of proper diet for our State institutions is always a matter of great importance, especially in these high-cost-of-living times. Your committee looked carefully into the food at Winthrop College and found it to be well balanced and, on the whole, quite satisfactory. An advisory committee of experts from the college faculty has been organized to keep in constant touch with the situation, and to hear complaints from the student body as to the diet.

There are about eleven hundred students at the present time. The student building now in course of construction will add much to the recreational life of the college. Your chairman addressed the students and faculty on the details of the work of the State Board of Health.

E. A. HINES, M. D., Chairman.

R. A. MARSH, M. D.

Sanitary Inspection of Clemson College, Clemson, S. C.

Clemson College was inspected October 17, 1919. We noted improvements in the sanitation of the kitchen and dining hall, and wish to commend the new plan of employing a mess officer of wide experience to have full charge of the mess department. We would urge that a new floor be put in the dining hall, as it is impossible to keep the present floor in a sanitary condition. The food served is satisfactory.

The dairy appears to be carefully cared for from a sanitary standpoint. The walls have been repaired and calsomined according to our recommendation of a year ago. The cow barn should be immediately calsomined and kept so. The water supply is good, the new filters working well.

Our recommendation that a new hospital be constructed we reiterate very strongly. We believe that such a great institution

should not be permitted to retain a building so wholly unfit for modern hospital purposes.

The health of the cadet corps we found to be exceptionally good. The report as to venereal diseases was very satisfactory, especially in view of war conditions.

E. A. HINES, M. D., Chairman.

R. A. MARSH, M. D.

Sanitary Inspection of the University of South Carolina, Columbia, S. C.

The University was inspected on October 22, 1919, with special reference to the improvements in the college dormitories. De-Saussure College has been completely remodeled since our visit a year ago, and appears to be equipped, from a sanitary standpoint, according to the latest ideas. The management is to be congratulated upon their success in remodeling these old buildings and bringing them to such a satisfactory sanitary status.

The new law building was inspected, and it is a pleasure to report favorably upon every phase of this modern institution. The infirmary, at the time of our visit, had a number of cases of diphtheria, according to the laboratory reports. The situation seemed to be well in hand by the college authorities and the attending physicians, great care being taken to isolate the patients and give them prompt attention. The infirmary is well equipped for doing good work.

E. A. HINES, M. D., Chairman.

R. A. MARSH, M. D.

Sanitary Inspection of the South Carolina Agricultural and Mechanical College, Orangeburg, S. C.

The South Carolina Agricultural and Mechanical College at Orangeburg was visited on November 26, 1919, and a thorough sanitary inspection was made of all of its departments.

We found the class rooms quite inadequate for the needs of the college, and we were delighted to know that this condition would soon be relieved, as we found in process of construction a building to be used solely for an auditorium and class rooms. This building, we were told by Dr. Wilkinson, would be completed at an early date, and after its completion the present class rooms will be converted into bed rooms for additional students who now, for the lack of room, cannot be accommodated.

We were delighted to find the dormitories so clean and well kept, and wish to commend the girls especially for the immaculate manner in which they keep their dormitory.

The infirmaries were found to be clean and quite sanitary. We are glad to report that there was not a single case of sickness of any kind in the college at the time of our visit. The health of the student body seems to be looked after with the greatest care. We found a resident trained nurse and two assistant nurses, a male and a female. We found that ninety-four pupils had not been vaccinated against smallpox, and urged that they be vaccinated without delay. Dr. Wilkinson assured us that the work on the hospital building would be begun on the first of January. He now has in hand twelve thousand five hundred dollars, appropriated by the Legislature, with which he will begin this work, and he has been assured that an additional equal sum will be given for the completion of the building. We feel that this hospital is an urgent need of the institution, for, should there be much sickness there, the small rooms now being used as infirmaries would prove to be very inadequate.

The toilets are all kept clean, but the pressure from the city water is not sufficient to flush them well, creating just the condition reported by us from the Citadel. We beg to suggest, for the relief of this condition, that the State erect a tank on the property of sufficient altitude to give the necessary pressure.

The dining room and kitchen were in first class condition in every particular, and the diet is excellent.

The dairy and cow barn are sanitary and are as clean and well kept as any we have ever seen.

This college was one of the very few colored colleges of the United States designated by the War Department to maintain a unit of the Reserved Officers Corps. This unit was organized January 21, 1919.

E. A. HINES, M. D., Chairman.
R. A. MARSH, M. D.

*Sanitary Inspection of the South Carolina Institute for the Deaf,
Dumb and Blind, Cedar Spring, S. C.*

This institution, having in recent years been classed as an educational institution by the General Assembly, is now visited regularly by the committee on sanitation of schools and colleges. Extensive improvements have been made in the administration

building and dormitory since our last visit. These are conducive to better management of the institution and more satisfactory living conditions.

We were pleased to note the excellent health record for the past year, the institution having passed through the influenza epidemic with remarkably few serious cases. We would suggest that some means be provided for at least an annual physical examination of the pupils, including eye, ear, nose and throat, and especially that provision be made for systematic dental inspection and treatment. As these pupils constitute a class of defectives we feel that they should have unusual care along these lines.

This inspection was made March 5, 1919.

E. A. HINES, M. D., Chairman.

R. A. MARSH, M. D.

LABORATORY REPORT

Columbia, S. C., December 31, 1919.

To the Chairman and Members of the Executive Committee, S. C. State Board of Health.

Gentlemen: The following is report on the Laboratory for the year 1919:

DIAGNOSTIC PROCEDURES.

A large increase—nearly 100% is to be noted in this work. The Wassermann tests alone exceed all other procedures. During the year over 30,000 tests were made—the attached tabulated statement gives the details of these tests.

PASTEUR TREATMENT.

The number of persons given preventive inoculations against rabies number 374—less than for the two preceding years, but hardly enough decrease to warrant the opinion that the disease is on the decrease in our State. Nothing short of the repressive measures annually urged in these reports will avail to reduce the annual loss of valuable animals from this disease, with its attendant expense and inconvenience to human beings—and the occasional unpreventable loss of human life. Two deaths are recorded this year—Mr. Cain's report on them is attached to this report.

I would respectfully urge that your committee endeavor to secure increased salaries for the laboratory staff—the present conditions of living make former salaries actually smaller in purchasing power, and it is hard to retain the loyalty and services of valued employees when these are underpaid.

* In conclusion, the undersigned wishes to make grateful acknowledgment of the loyalty, energy, and faithfulness of the laboratory workers, who so splendidly carried on the work during his absence; and also to the members of your committee for their consideration in holding the position during his absence of more than a year.

Respectfully submitted,

F. A. COWARD, M. D.,

In Charge, Department of Laboratory.

To the Executive Committee, South Carolina State Board of Health.

Gentlemen: I regret to report two deaths from rabies in patients treated by the Laboratory for its prevention. The first occurred in Lexington County. A negro boy, four years old, was bitten on the ear, April 22nd. The treatment was commenced on the 23rd, and completed in the usual twenty-one days. The patient became ill fifteen days after the completion of the treatment and died four days later. Dr. D. M. Crosson, of Leesville, administered the treatment in this case, and made a report of it to the Laboratory.

The second case was that of a young man by the name of Allen from Anderson. He was bitten July 2, 1918, on the wrist, and while it is not in our records, it is remembered that the wound was severe enough to require the attention of Dr. Francis B. Johnson, who was then in charge of the Laboratory. Allen completed the usual treatment at the Laboratory. On June 30th of this year a telegram was received from his father at Winston-Salem, North Carolina, to which place he had moved, stating that his son had become ill, that they feared hydrophobia, and requesting treatment, if any were available. The North Carolina Board of Health, at our request, investigated the case and their report indicated it to be a case of rabies. The patient subsequently died.

Respectfully submitted,

JAMES R. CAIN.

SUMMARY OF LABORATORY WORK FOR THE YEAR 1919.

Kind of Specimen for Examination.	Positive.	Negative.	Doubtful.	Total.
Sputa for B. Tuberculosis	774	209	...	983
Hookworm ova	954	4,232	...	5,277
Rabies	141	99	14	254
Gonococcus	672	1,250	...	1,922
B. diptheria	147	324	...	471
B. coli in water	148	62	...	210
B. coli in urine	1	1	...	2
B. coli in milk	3	...	...	3
Plasmodium malaria	21	545	...	566
B. Tuberculosis in Discharges other than Sputa.....	...	11	...	11
Blood cultures	2	7	...	9
Miscellaneous Pathogenic Organisms:				
Pyogenic Cocci	2	...	...	2
B. Influenza	4	2	...	6
Pneumococcus	1	3	...	4
Meningococcus	1	8	...	9
Miscellaneous Intestinal Parasites Other Than Hookworm:				
Ameba Hystolitica	1	14	...	15
Ascaris L.	30	1	...	31
Oxyuris V.	7	...	...	7
Tenia Saginata	1	...	...	1
Tenia Nana	36	...	...	36
Larva of House fly.....	1	...	...	1
Miscellaneous Specimens for Identification:				
Pleuritic fluid .....	...	4	...	4
Smear for Filariæ .....	...	1	...	1
Smear from Ear	1	...	...	1
Smear from Eye .....	...	1	...	1
Widal Tests:				
B. typhosus	860	1,850	54	2,764
B. paratyphoid	88	2,670	6	2,764
Total	3,896	11,385	74	15,355

WASSERMANN TEST.

Blood:	
Very Strongly Positive (xxxx).....	3,142
Strongly Positive (xxx).....	388
Positive (xx).....	258
Weakly Positive (x).....	268
Doubtful (x—).....	274
Negative (—).....	10,545
Anticomplementary (AC).....	616
Total	15,491

Spinal Fluid:

Very Strongly Positive (xxxx).....	3
Strongly Positive (xxx).....	2
Positive (xx).....	2
Weakly Positive (x).....	2
Doubtful (x—).....	0
Negative (—).....	21
Anticomplementary (AC).....	3
Total	33

Grand total15,524

PASTEUR TREATMENT.

Number of patients finished treatment Dec. 31, 1919.....	367
Number of patients under treatment Dec. 31, 1919.....	7
Total	374

LOCATION OF BITES.

Face	12
Hand and Foot	54
Leg and Arm	59
Doubtful Exposure	10
No Information	239
Total	374

WHERE TREATED.

Treated at Home	362
Treated at Laboratory	12
Total	374

TYPHOID VACCINE.

Number of ampules sent out.....	27,061
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ANNUAL REPORT OF SOUTH CAROLINA STATE BOARD OF HEALTH, DIVISION OF VENEREAL DISEASE CONTROL, 1919.

The current year of 1919 has been one of continued progress for the Division of Venereal Disease Control of the State Board of Health of South Carolina.

While certain measures had been undertaken during the latter part of 1918 the Division did not assume the status of a State institution until the State General Assembly of 1919 gave to it legislative and financial endorsement.

At the beginning of the year there were 3 venereal disease clinics in the State, operated jointly by the U. S. Public Health Service and the American Red Cross in connection with the extra-cantonment sanitary zones surrounding the large military training camps near Columbia, Greenville and Spartanburg. These clinics were established pursuant with the Federal Government's policy to provide disease free areas adjacent to military concentration points and at that time were of comparatively limited benefit to the people of the State.

Figures compiled in the Office of the Surgeon General of the War Department proved conclusively the widespread prevalence of venereal infections among the general population from which the drafted men had been selected. Out of South Carolina's contribution to the first and second million men over 10 per cent. were incapacitated for military service because of syphilitic and gonorrhoeal infections contracted prior to their arrival in camp. To combat the conditions responsible for this state of affairs a State Division of Venereal Disease Control was established

As soon as financial backing had been secured in the State the three Government Clinics were turned over to the State Board of Health. At the time of transfer an average daily attendance of fifty persons—principally women violators of the Federal Statutes prohibiting immoral relations between women and uniformed men in the prescribed areas—was reported from all 3 clinics. It must be understood that prostitutes comprised over 95% of the attendance, and that the entire program was one of law-enforcement—a forcible protection of the health and morals of men being prepared for war service.

A direct comparison of control measures as then existing with the present day organization should prove interesting.

In 1918, 3 clinics afforded medical relief to 50 venereally infected persons per day at an average cost of from \$25.00 to \$37.00 per patient taking continuous treatment. Attendance was 95% compulsory.

At the present time there are 8 well established clinics in the State, in which a daily average of 325 persons actually receive treatment for one or more major venereal infections. This figure does not include a large number of individuals who submit to examination and who are found to be free from infection. During the 11 months just elapsed 7,873 persons, residents of this State, have been afforded treatment; 3,653 syphilitically infected, 3,559 suffering from gonorrhoea, 467 infected with chancroid, and 194 with other venereal conditions. The majority (over 90%) of these cases voluntarily attend the clinics and this is probably the best evidence of the quality and comprehensiveness of the service performed.

The efforts of the State Division of Venereal Disease Control are of three-fold nature. The major policy is based upon the elimination of venereal disease foci by the curing of infected individuals. To supplement and make permanent the benefits of medical relief, and to further protect the health of non-infected persons, special campaigns of education and of repression have been undertaken.

The fundamental need of the people of South Carolina is for education. Venereal diseases are productive of loss of life, loss of economic productiveness, and ruthlessly undermine the entire social structure of a people. These diseases are a terrible but absolutely unnecessary drain upon the resources of the citizenry of this or any other State. When the people are fully informed as to the prevalence of these scourges, the high mortality, and the immense amount of disability resulting from their unchecked ravages they will unite to demand protection from this common enemy which has usurped the preeminent position of civic menace so long held by tuberculosis and other communicable infectious diseases.

The eight venereal disease clinics form the most powerful educational argument at the disposal of the State. They serve to demonstrate in a practical way the prevalence, and the dangers of delayed or faulty treatment, and the terrible menace of unchecked venereal infection in the family. No person may attend one of the clinics for examination or treatment and leave without hav-

ing received authoritative information which serves the double purpose of saving the infected individual and protecting the health of persons with whom he or she may come in contact in their daily life.

The eight clinics already established are so located as to serve the greatest possible number of people in proportion to the funds expended. With clinics in Charleston, Florence, Columbia, Orangeburg, Newberry, Anderson, Greenville and Spartanburg, each the center of an important concentration of population, medical relief is placed almost at the door of thousands residing without the confines of cities. Large areas of the State are yet to be supplied and new clinics are urgently required to meet the demand and to supply the need. Had funds been available four or five additional clinics would have been established this year. Communities and counties have signified a desire to enter the campaign and these will be given the opportunity if their call is heard by the General Assembly. The clinic facilities of this State have been increased 166% and the medical relief afforded increased over 600% during the year 1919. The Division must meet the urgent demands for expansion or fail to perform to the fullest extent the service it is preeminently fitted to give.

Believing firmly that venereal diseases can have no place among a fully enlightened people special campaigns have been directed at various groups, physicians, druggists, ministers, educators, employers of labor, and parents, all being provided with educational matter especially prepared to fill their respective needs. One hundred and thirty-one thousand pieces of venereal disease educational literature have been distributed in general circulations and in response to requests received from interested persons. Numerous poster card and lantern slide exhibits have been shown in many sections of the State, and these have elicited most favorable comment.

Ably assisted by the Young Men's Christian Association a comprehensive campaign is being carried to boys of high school age. Educational pamphlets, and card and slide exhibits depicting the relationship between physical, and mental and moral fitness are presented to boys of fifteen years and over. By this means it is hoped to overcome the pernicious influence of the "gutter and back alley" education these boys acquire regarding sex matters.

For the period of the war, and until demobilization had been about completed, active warfare was waged against prostitution and against conditions conducive to the spread of venereal infections. Adequate legislative backing was found in Act 31 of the General Assembly of 1919 for the enforcement of quarantine measures as provided for in the Regulations of the State Board of Health. The courts of South Carolina have sustained the efforts being made for the protection of the public health, but as the people become more thoroughly acquainted with the dangers of uncontrolled venereal infections legal force will be less and less used.

During the period covered by this report a total of 563 persons, principally diseased prostitutes, have been detained in various penal institutions of the State. Of this number 106 have been afforded hospital treatment, major operations being required to insure their return to health.

The extensive work done has necessarily cost a considerable amount of money. In consideration of the number of persons afforded treatment, and in proportion to the economic returns to the taxpayers of this State, however, every dollar has been well spent.

A brief summary of the manner in which the Division has been financed is necessary to illustrate the comparisons indicated.

As provided in the Chamberlain-Kahn Bill (Federal) the sum of one million dollars was to be allotted to the various States, each State's share to be determined upon the basis of population as shown by the 1910 census, provided the State appropriate or otherwise set aside a sum equal to that to be given by the Federal Government. South Carolina's prospective share amounted to \$16,476.71. As the 1919 General Assembly appropriated only \$10,000 it became necessary to get additional funds from some other source. To meet this deficiency the County of Spartanburg gave \$6,000, and Greenville County set aside \$2,000. The Federal authorities approved this collective appropriation and the Chamberlain-Kahn funds became available July 1, 1919. Additional assistance has been given by practically every city and county in which a clinic is located so that nearly \$40,000 has actually been devoted to venereal disease control.

According to accurate estimates the per capita cost of treatment has not exceeded \$5.10. This cost includes all items of administration, education, and repression as well as medical relief.

This organization has not only afforded the best possible treatment to hundreds of individuals who could not pay for relief but has been able to do so at a minimum expense.

During the coming year at least four additional clinics should be established. The General Assembly must provide for this expansion so that all parts of the State may be equally benefited. In order to equalize the financial burden of maintenance each of the three most interested agencies, the State, and the city and county in which a clinic is located, will be asked to assist. The general fund provided by the State will cover the cost of administration, educational measures, and the State's share of clinic maintenance. With City and County cooperating the major portion of the expense will be placed where the greatest benefit falls.

Attached hereto is a summary of the activities of the Division of Venereal Disease Control for the period from January 1, 1919, to December 1, 1919.

Respectfully submitted,

CHARLES V. AKIN,

P. A. SURGEON, U. S. P. H. S.

SUMMARY OF ACTIVITIES OF DIVISION OF VENEREAL DISEASE CONTROL, YEAR 1919.

The State Board of Health, Division of Venereal Disease Control of South Carolina submits the following report on activities in the control of venereal diseases, for the period from January 1, 1919, to December 1, 1919:

I. Clinics:	
Number of Venereal Disease Clinics on January 1, 1919	3
Number of Venereal Disease Clinics on December 1, 1919	8
(a) Average daily attendance	355
(b) Number of cases of gonorrhoea treated	3,559
(c) Number of cases of syphilis treated	3,653
(d) Number of cases of chancroid treated	467
(e) Number of cases of other venereal diseases treated	194
Total number of cases of venereal diseases treated	7,873
(Total number of cases of venereal diseases treated —7,873—does not include persons examined and found negative to venereal infection.)	
II. (a) Number of cases of gonorrhoea reported	4,961
(b) Number of cases of syphilis reported	4,907
(c) Number of cases of chancroid reported	494
III. Number of doses of Neodiarsenol or Neoarsphenamine	14,185
Number of doses of Mercury Salicylate in oil	6,000
IV. Number of cases of venereal diseases in detention homes	457
V. Number of cases (not included in above) hospitalized	106
VI. (a) Number of requests for pamphlets received	3,803
(b) Number of pamphlets distributed	131,000
(c) Number of pamphlet spurchased:	
(1) A for Young men	30,000
(2) B for general public	10,000
(3) C for boys	25,000
(4) D for parents	10,000
(5) E for girls	6,000
(6) F for educators	6,000
(7) Other pamphlets—leaflets, placards, etc	46,000
Total	143,000

VII.	(a) Number of lectures and addresses given 17 av. attend...	44
	(b) Number of slide showings made, 30 av. attendance	82
VIII.	Number of days 8 card exhibits shown 1,650, av. daily attend.	100
IX.	Exhibits 16 slides 9 and films 0 purchased.	
X.	Publicity material—press notices	215
XI.	Other educational measures—Placards in trains, stations, toilets, and lavatories of public buildings	1,250
XII.	Number of new State laws passed	1
XIII.	Number of city ordinances passed	5
XIV.	Number of visits to cities of 10,000 population and over.....	54
XV.	Number of visits to rural communities (under 10,000)	116

Respectfully submitted,

STATE V. D. OFFICER.

Columbia, S. C., Dec. 3, 1919.

Dr. J. Adams Hayne, Secretary State Board of Health, Columbia, S. C.

My Dear Doctor: Herewith please find my report for ten months ending October 31st, 1919.

Over the entire registration area of the United States there has been a decrease of 10% in births. Our decrease is only 4.8% for the same period. In the registration area since March 31st, the decrease in deaths has been 17%.

I have compared the number of deaths in the six months commencing April 1st and ending September 30th of this year, with the same months in 1918, and find that the decrease has been 19.7%.

I made the comparison for the above term, because the influenza epidemic commenced October 1, 1918, and ended about March 31, 1919.

There has been a decrease of 2,064 negro births, while the white birth rate has slightly increased. I cannot account for the negro decrease. As you know, this office has been recently examined by agents of the census bureau, and they found over 90% of all births reported. This shows good registration. My only theory is that large numbers have left the State in the past two years and when the 1920 census is taken, it will be found that the negro population has been largely over-estimated. Deaths from whooping cough have fallen off 100%, why, I do not presume to say.

Much better work could be done if the legislature would only increase our appropriation. This bureau has only one-half the amount of money to work with that the other States of equal size have, and even with this handicap the agent of the United States census bureau (as shown in his report) says we have accomplished wonders.

Yours very truly,

C. W. MILLER,

Assistant State Registrar.

**TOTAL NUMBER OF BIRTHS AND DEATHS IN SOUTH CAROLINA FROM
JANUARY TO OCTOBER 31, 1918.**

Counties.	Deaths.	Births.	S. Births.
Abbeville	302	664	39
Aiken	462	676	50
Anderson	758	1,720	89
Bamberg	260	473	34
Barnwell	301	575	61
Beaufort	452	448	56
Berkeley	432	633	34
Calhoun	327	519	55
Charleston	2,359	1,674	222
Cherokee	291	684	28
Chester	313	553	32
Chesterfield	284	839	30
Clarendon	639	887	53
Colleton	234	557	48
Darlington	595	937	72
Dillon	200	420	18
Dorchester	184	279	16
Edgefield	182	508	29
Fairfield	270	580	25
Florence	846	1,087	98
Georgetown	430	488	37
Greenville	1,565	1,883	113
Greenwood	459	782	59
Hampton	324	532	33
Horry	479	884	48
Jasper	122	178	10
Kershaw	283	525	12
Lancaster	404	651	34
Laurens	521	971	55
Lee	507	605	37
Lexington	386	744	21
Marion	330	483	28
Marlboro	661	943	78
Newberry	505	780	46
Oconee	352	768	27
Orangeburg	943	1,670	132
Pickens	289	798	38
Richland	2,411	1,398	126
Saluda	157	379	17
Spartanburg	1,234	2,003	111
Sumter	757	1,023	96
Union	274	655	30
Williamsburg	631	1,018	67
York	651	1,046	63
McCormick	142	294	8
	<u>24,508</u>	<u>36,209</u>	<u>2,415</u>

Yearly Rate Based on Deaths for Ten Months:

Civilian Deaths	23,273	Rate	16.9
Deaths at Camps	1,235	"	12.2
<hr/>			
Births	24,508	"	26.4
	36,209		

**TOTAL NUMBER OF BIRTHS AND DEATHS IN SOUTH CAROLINA FROM
JANUARY TO OCTOBER 31, 1919.**

Counties.	Deaths.	Births.	S. Births.
Abbeville	291	618	33
Aiken	457	729	62
Allendale	122	294	21
Anderson	652	1,498	54
Bamberg	240	477	28
Barnwell	200	313	38
Beaufort	405	419	49
Berkeley	326	559	53
Calhoun	296	493	39
Charleston	1,638	1,686	248
Cherokee	297	720	40
Chester	276	506	31
Chesterfield	302	787	27
Clarendon	426	807	68
Colleton	188	507	34
Darlington	491	848	56
Dillon	173	493	18
Dorchester	179	246	17
Edgefield	302	452	23

**TOTAL NUMBER OF BIRTHS AND DEATHS IN SOUTH CAROLINA FROM
JANUARY TO OCTOBER 31, 1919.—Continued.**

Counties.	Deaths.	Births.	S. Births.
Fairfield	294	510	30
Florence	649	1,163	89
Georgetown	307	485	43
Greenville	893	1,759	92
Greenwood	454	697	45
Hampton	242	501	38
Horry	397	915	53
Jasper	84	112	4
Kershaw	268	573	27
Lancaster	323	660	38
Laurens	419	816	45
Lee	302	628	48
Lexington	302	754	40
Marion	235	425	24
Marlboro	444	749	58
Newberry	334	728	33
Oconee	277	721	29
Orangeburg	730	1,602	129
Pickens	254	789	33
Richland	1,354	1,490	139
Saluda	169	343	15
Spartanburg	983	1,946	143
Sumter	569	1,002	81
Union	246	544	18
Williamsburg	457	866	53
York	549	907	67
McCormick	196	328	19
	<u>18,992</u>	<u>34,465</u>	<u>2,372</u>

Yearly rate based on deaths for ten months..... 14.1
Yearly rate based on births for ten months..... 25.4

**DEATHS IN SOUTH CAROLINA, ACCORDING TO RACE AND AGE, FOR
TEN MONTHS ENDING OCTOBER 31, 1918, AND 1919.**

Age.	White—Male.		Black—Male.	
	1918.	1919.	1918.	1919.
Under 1 year	904	771	1,799	1,516
1 to 5 years	535	331	1,052	591
5 to 10 years	116	107	300	192
10 to 20 years	312	247	676	525
20 to 30 years	1,141	371	1,097	711
30 to 40 years	455	360	653	517
40 to 50 years	356	305	521	471
50 to 60 years	329	293	400	334
60 to 70 years	468	436	443	358
70 to 80 years	400	386	369	335
Over 80 years	151	130	262	209
Unknown	18	19	48	39
Total	<u>5,185</u>	<u>3,756</u>	<u>7,620</u>	<u>5,798</u>

Age.	White—Female.		Black—Female.	
	1918.	1919.	1918.	1919.
Under 1 year	660	587	1,460	1,258
1 to 5 years	508	276	1,002	520
5 to 10 years	116	94	284	216
10 to 20 years	236	161	749	651
20 to 30 years	486	354	1,209	1,033
30 to 40 years	423	372	860	778
40 to 50 years	301	245	606	509
50 to 60 years	295	240	425	382
60 to 70 years	389	352	400	337
70 to 80 years	434	344	266	262
Over 80 years	249	204	296	212
Unknown	14	18	31	30
Total	<u>4,111</u>	<u>3,247</u>	<u>7,588</u>	<u>6,188</u>

Indians, 7.

**BIRTHS IN SOUTH CAROLINA, ACCORDING TO RACE AND SEX, FOR
NINE MONTHS ENDING SEPTEMBER 30, 1918.**

White.		Black.	
Male	7,611	Male	9,125
Female	7,182	Female	8,402
Total	<u>14,793</u>	Total	<u>17,527</u>
Unknown		123	
Indians		16	

**SUPPLEMENTARY REPORT OF DEATHS, ACCORDING TO AGE FOR
NOVEMBER AND DECEMBER, 1919.**

	White male.	Black male.		White female.	Black female.
Under 1 year	174	354	Under 1 year	125	278
1 to 5 years	87	119	1 to 5 years	84	104
5 to 10 years	27	41	5 to 10 years	26	49
10 to 20 years	37	83	10 to 20 years	32	107
20 to 30 years	55	135	20 to 30 years	43	181
30 to 40 years	46	79	30 to 40 years	60	143
40 to 50 years	57	90	40 to 50 years	56	123
50 to 60 years	61	88	50 to 60 years	61	92
60 to 70 years	106	93	60 to 70 years	82	80
70 to 80 years	110	88	70 to 80 years	113	59
Over 80 years	31	61	Over 80 years	53	61
Unknown	4	9	Unknown	1	5
Total	795	1,240	Total	736	1,282

**BIRTHS IN SOUTH CAROLINA, ACCORDING TO RACE AND SEX, FOR
NINE MONTHS ENDING SEPTEMBER 30, 1919.**

	White.		Black.	
Male	7,746	Male	7,711	
Female	7,266	Female	7,752	
Total	15,012	Total	15,463	
Unknown		Unknown	104	

**SUPPLEMENTARY REPORTMENT FOR BIRTHS ACCORDING TO SEX
AND COLOR FOR OCTOBER, NOVEMBER, DECEMBER AND DE-
LAYED, 1919.**

White female	3,346	Black Female	3,433
White male	3,580	Black male	3,674
Unknown	81		

**TOTAL NUMBER OF DEATHS FROM THE FOLLOWING DISEASES FROM
JANUARY TO OCTOBER 31, 1918 AND 1919.**

	1918		1919	
	Num- ber.	Rate Per 100,000	Num- ber.	Rate Per 100,000
Tuberculosis, Pulmonalis	1,356	99.	1,347	99.
Tuberculosis, other forms	120	8.8	119	8.8
Pellagra	558	40.7	303	22.4
Diphtheria	66	4.8	61	4.5
Scarlet fever	3	.2	1	.07
Measles	76	5.5	7	.5
Typhoid fever	421	30.7	294	21.7
Smallpox	...	...	3	.2
Cancer, malignant tumors	375	27.4	410	30.3
Malaria	262	19.1	254	18.7
Meningitis, cerebro-spinal	191	12.9	38	2.8
Whooping cough	255	18.6	57	4.2
Pneumonia	2,956	201.1	1,729	127.6
Pneumonia, broncho	1,582	107.6	893	65.9
Pneumonia, hypostatic	10	.7	9	.7
Pleurisy	26	1.9	15	1.1
Diseases of circulation	2,227	162.6	1,868	137.9
Diseases of kidneys	1,320	96.4	1,083	79.9
Syphilis	59	4.3	39	2.9
Syphilis, congenital	54	3.8	34	2.5
Tetanus	20	1.5	13	.9
Tetanus, neonatorum	19	1.3	27	2.
Dysentery	331	25.1	193	14.2
Dysentery, amebic	13	.9	9	.7
Scurvy	1	.07	1	.07
Intestinal diseases	1,149	83.9	898	66.3
Erysipelas	28	2.	9	.7
Homicide	145	10.5	183	13.5
Suicide	153	3.7	47	3.5
Auto accidents	39	2.8	49	3.6
Railroad accidents	74	5.4	58	4.3
General accidents	250	18.2	206	15.2
Lightning	9	.7	24	1.6
Legal electrocutions	...	...	4	.5
Poliomyelitis	8	.5	8	.5
Influenza and la grippe	899	66.2	866	63.9
Encephalitis, lethargic	...	...	17	1.2

SUPPLEMENTARY REPORT ON FOLLOWING DISEASES FOR NOVEMBER AND DECEMBER, 1919.

	November.	December.	Delayed.	Total.
Tuberculosis, pulmonalis	123	146	20	289
Tuberculosis, other forms	10	10	..	20
Pellagra	25	23	5	53
Diphtheria	35	14	4	53
Scarlet fever .....	..	..	..	..
Measles .....	..	..	..	..
Typhoid fever	33	28	5	66
Typhoid fever	33	20	5	66
Smallpox .....	..	..	..	..
Cancer, malignant tumors	38	65	5	108
Malaria	35	22	1	58
Meningitis, Cerebro Spinal	1	1	2	4
Whooping cough	8	3	..	11
Pneumonia	73	132	14	219
Pneumonia, broncho	39	69	4	112
Pneumonia, hypostatic	2	4	..	6
Pleurisy	1	4	..	5
Diseases of circulation	225	221	15	461
Diseases of kidney	101	137	17	255
Syphilis	2	4	1	7
Syphilis, congenital	1	5	..	6
Tetanus	1	..	..	1
Tetanus, neonatorum	1	1	..	2
Dysentery	11	5	3	19
Dysentery, amaebe	1	4	..	5
Scurvy .....	..	..	..	..
Intestinal diseases	72	63	9	144
Erysipelas	3	3	..	6
Homicide	22	28	3	53
Suicide	5	2	..	7
Auto accidents	10	10	2	22
Railroad accidents	7	7	..	14
General accidents	40	37	2	79
Lightning .....	..	..	..	..
Legal electrocutions	1	..	..	1
Poliomyelitis	3	2	1	6
Influenza and la grippe	6	10	1	17
Encephalitis, lethargic	2	1	..	3

COMPARATIVE STATEMENT OF DEATHS IN THE FOLLOWING CITIES FROM JANUARY TO OCTOBER 31, 1918 AND 1919.

	1918.	1919.
Abbeville	81	47
Alken	99	76
Anderson	243	167
Bennettsville	67	46
Camden	78	55
Charleston	1,652	1,114
Cheraw	45	39
Chester (Registrar dead, record incomplete)	75	84
Clinton	62	35
Columbia	1,444	1,026
Darlington	75	45
Easley	76	49
Florence	310	213
Gaffney	59	70
Georgetown	121	92
Greenville	382	231
Greenwood	134	100
Laurens	62	55
Marion (complete only to September)	50	41
Newberry	105	50
Orangeburg	112	63
Rock Hill	155	136
Spartanburg	389	298
Sumter	249	145
Union	74	60

DEATHS FROM PARTURITION AND PREGNANCY FROM JANUARY TO OCTOBER 31, 1918 AND 1919.

	1918.	1919.
Attended by physicians	312	272
Unattended by physicians	43	48
	355	320

BUREAU OF CHILD HYGIENE.

To the Chairman and Members of the Executive Committee, The South Carolina State Board of Health, Columbia, S. C.

Gentlemen. The General Assembly of 1919 established a Bureau of Child Hygiene with an appropriation of ten thousand dollars. The staff of the bureau consists of a director, an assistant supervising nurse, and one field nurse. In co-operation with the State Tuberculosis Association and the tuberculosis division of our own department, two more nurses are available for demonstration work. Because a demand had been created for the services of a State supervising nurse, which the director of a bureau of child hygiene could not answer, the director of this bureau was appointed State Supervisor of Public Health Nursing. As South Carolina is distinctly a rural State, our problems are rural problems. Believing the best way to promote the interests of the bureau to be through county and community nurses, located in various parts of the State, a part of our ten thousand dollars was apportioned in our budget for co-operative work with counties. Negotiations were then made with county delegations, with mill corporations, with chambers of commerce—with any agency and all agencies that might be interested in the employment of public health nurses. In June, the co-operation of the Red Cross was asked and granted, by reason of which Red Cross funds were to be released throughout the State for the employment of nurses, all Red Cross nursing activities being placed under State Board of Health supervision, the State supervising nurse being made the Red Cross representative for South Carolina. During the year, our ten-thousand-dollar appropriation has been supplemented by ten thousand more from other sources, giving us twenty thousand dollars with which to work.

A child hygiene program was arranged for those counties employing nurses, this program being made broad enough to embrace every form of public health nursing. Activities of the nurse include:—pre-natal work, infant welfare, supervision of bottle-fed and sick babies, instruction to classes of mothers and classes of midwives, supervision of tuberculous patients, improvement of sanitary conditions of homes, control of epidemics, physical inspection and the teaching of health principles in schools.

Twelve counties have employed county supervising nurses, whose duty it is, in addition to carrying out the child hygiene

program, to establish health centers, stimulate activities for the employment of community nurses, and to develop county nursing units. Two of these units have been in operation since the first of August—Greenville with a staff of eleven nurses, and Chester with three. Splendid co-operation has been accorded, especially by mill corporations. In Greenville the mills have arranged with an eye specialist to make all necessary eye corrections. A request is now in from these mills to employ a dentist for dental clinics. In the City of Greenville, a tuberculosis clinic and two well-baby clinics, one for white and one for colored babies, are in operation. In three months' time the tuberculosis clinic has grown to such an extent that the physician in charge declares that it will be necessary to set apart two days each week for examinations. A hospital, now being built, is to provide for a nose and throat clinic. Dentists are co-operating to the extent of giving their time for inspection of school children and for clinical work.

The midwife problem is a most difficult and gigantic one when we consider that twenty per cent. of white mothers, and eighty per cent. of colored, depend upon these dirty, ignorant negro women for care at a time when they should have the most skilled attention. The midwife cannot be eliminated. She must be made the best of as a bad bargain. Registration of these women has been begun in those counties employing nurses, and classes have been formed. The instruction consists principally of what not to do, and rules for ordinary cleanliness. One hundred and seventy-five of these women are now under supervision. At the last meeting of the executive committee of our State Board of Health a set of rules governing midwives was incorporated in our Sanitary Code, making this supervision compulsory.

The greatest handicap to this entire program has been the lack of properly trained nursing material. Foreseeing this difficulty, in February, four nurses were sent to the Richmond School of Social Service and Public Health. The supervisor of one of our units was sent to the University of Michigan, and four are now being trained in the Richmond school. Believing it better to wait until properly trained nurses might be available, the assembling of our machinery and the organization of our work has seemed to progress slowly. Recently, however, returning overseas nurses have responded to our call, and during the year twenty-one well qualified nurses have been located. Of these, two are Canadian trained, two are graduates of Columbia University,

two from Simmons, one from University of Michigan, and others were trained under such women as Miss Mary Beard and Miss Lent. The counties employing nurses are Chester, Greenville, Anderson, Horry, Clarendon, Kershaw, Florence, Dillon, Edgefield, Beaufort, Hampton, Richland. Calls for twenty-three additional nurses are now on file.

A library for nurses has been established and kept in circulation. The National Organization of Public Health Nursing has put its pamphlet library into circulation through the Bureau of Child Hygiene, the director of the bureau being appointed librarian.

Literature published during the year includes: Baby Records and Letters to Mothers of Young Babies, pamphlets on Birth Registration, Clothes for the Baby, The Rural Public Health Nurse, and Development of a Bureau of Child Hygiene.

Nine thousand eight hundred and eighty-nine people have been reached by lectures.

Seventy thousand eight hundred and fifty-nine pieces of literature have been distributed.

A child welfare exhibit was held at the State Fair and at six county fairs. Parts of the exhibit have been loaned to various agencies over the State.

To initiate the service, our plan of work was first of all presented to the State Medical Society, receiving its hearty endorsement and support. Following this a presentation was made in turn to the annual meetings of the Graduate Nurses' Association, the Federation of Women's Clubs, the Southern Tuberculosis Association, the Southern Sanitary Association, the Social Service Convention. Each of these unanimously passed resolutions endorsing the work and pledging its support to the same.

The Federation of Women's Clubs offered scholarships for the training of our first nurses. Dr. D. B. Johnson asked that an instructor be supplied from our personnel for the annual course in Home Nursing which is given at Winthrop to club women. Mr. J. E. Swearingen has given his endorsement of the hygiene work which is being attempted in the schools.

Before instituting a county nursing service the work was first presented to the county delegation, the County Medical Society, the County Superintendent of Education, the Red Cross Chapter, the Home Demonstration Agent. Nurses were placed under the direct jurisdiction of the County Medical Society. The hearty

co-operation of all these agencies has contributed largely to the general progress of the work. Miss Christine South, State Home Economics Agent, has asked that a co-operative program be arranged and put in operation between county nurses and county home demonstration agents, relative to a hot lunch system in schools and a proper dietary schedule for under-nourished children. The nurse's reception in homes has been uniformly cordial, the mothers accepting her as the counsellor and friend of the babies and children.

Because the supply of properly trained public health nursing material has been inadequate, and because it has been necessary for us to send our nurses to other States to be trained, both the University of South Carolina and the South Carolina Medical College have offered their facilities for the training of nurses. There is no doubt that another year will see the establishment of a Public Health Nursing School in our own State.

In view of the uniform and enthusiastic acceptance of the Bureau of Child Hygiene, and the rapidly increasing demand for public health nurses, we feel justified in asking the General Assembly for a continuance of the work.

To meet the additional responsibility entailed by the co-operative agreement between the State Board of Health, the American Red Cross, and the State Tuberculosis Association, we feel that an appropriation less than fifteen thousand dollars (\$15,000.00) would be inadequate.

When we have an efficient public health nursing service covering the entire State with a net-work of community nurses responsible to county supervising nurses, and county supervisors responsible to the State Board of Health, then, and not until then, can we hope for an appreciable lowering of the infant mortality rate and the building up of an efficient citizenship.

Respectfully submitted,

RUTH A. DODD,

Supervisor, Public Health Nursing,
In Charge, Bureau Child Hygiene.

(Mrs. Ruth A. Dodd.)

NURSES PAID IN WHOLE OR IN PART BY BUREAU OF CHILD HYGIENE.

Mrs. Ruth Dodd, in charge, Bureau of Child Hygiene.

Miss Malinda Murphy, Assistant Supervising Nurse.

Miss Amy F. Lowe, Greenville, Bureau Child Hygiene and County Delegation.

Miss Martha J. Macdonald, Chester, Bureau Child Hygiene and Red Cross.

Miss Caro McLeod, Dillon, Bureau Child Hygiene, State Tuberculosis Association and County Delegation.

Miss Grace G. Brumbaugh, Edgefield, Bureau Child Hygiene, Red Cross and County Delegation.

Miss Florence Bryant, Hampton, Bureau of Child Hygiene and County.

Ellen Woods Carter, Field Nurse.

Annie C. Aiken, Secretary to Mrs. Dodd.

REPORT OF DEPARTMENT OF COUNTY HEALTH WORK.

L. A. Riser, M. D., in Charge.

*To the Chairman and Members of the Executive Committee,
South Carolina State Board of Health.*

Gentlemen: I herewith submit my report as Assistant Health Officer in charge of Department of County Health Work for the year 1919:

PERSONNEL.

This Department consists of seven full-time units: the Executive Unit, consisting of a physician and office secretary, and six county units, each consisting of a physician assisted by one or more nurses and social workers and a corps of inspectors, carpenters and cement workers, all giving their full time to this service. Each county has a colored social worker who works directly under the county nurse.

Executive Unit—In charge of Dr. L. A. Riser, assisted by Miss Mary C. Dibble, office secretary.

Orangeburg County Unit—In charge of Dr. R. S. Bailey, assisted by Miss S. J. Anderson and Miss Elizabeth Simpson.

Darlington County Unit—In charge of Dr. C. H. Verner, assisted by Miss Betty Milne, Hattie Cannon and A. R. Nicholson.

Calhoun County Unit—In charge of Dr. C. S. Kinzer, assisted by W. P. Prickett and Mrs. C. S. Kinzer.

Lexington County Unit—In charge of Dr. Carl A. West, assisted by R. C. Roof, Miss A. J. Hill and Lillian Mack.

Lee County Unit—In charge of Dr. Walter Boone, assisted by Miss Ann Murphy and Mattie Fisher.

Sumter County Unit—In charge of Dr. D. T. Rankin, assisted by Mrs. E. E. Stroup and Dr. Bragg Anthony.

During the year two men resigned—Dr. B. E. Kneece, in charge of Lexington County, and Dr. C. C. Craft, in charge of Lee County. Miss Germaine Crumbaugh, office secretary, also resigned the first of December.

SANITATION.

This year an attempt has been made to get the most approved form of sanitation in each home. Our aim has been to get in more septic tanks rather than pit privies, and while the quantity of homes sanitated has not been so great in proportion, yet the quality of sanitation has improved and we are putting in permanent sanitation whenever possible to do so.

We have also succeeded in getting a number of mills and commercial concerns to put in septic tanks. Not only have we accomplished this in our own counties, but in other counties in which your Director has had personal interviews with mill owners and corporations.

In our six counties we have installed 433 septic tanks, 517 pits, and 37 buckets and have succeeded in getting two cotton mills to agree to put in sanitary systems, one town to vote in bonds for sewerage and 295 homes have been screened.

Twenty-three cotton mills in South Carolina had put in the best type of sewerage previous to 1919. During this year 27 cotton mills have been completely sanitated, some by sewerage, some by cement septic tanks and others by chemical closets. Some have used several types. Thirteen other cotton mills have sewerage systems in process of construction. Thirteen cotton mills are trying out various kinds of septic tanks and chemical closets and 150 outfits have been installed at these mills.

As a result of a campaign which was made early in the spring, we have succeeded in getting 601 septic tanks installed in private

homes throughout the State in counties where we have no County Health Unit.

EDUCATIONAL.

During the year 356 lectures have been delivered to 23,996 people, 71 health clubs have been organized with a membership of 2,380, 38,334 pieces of literature have been distributed, 4,431 office letters written, 8,374 circulars mailed, 16,168 homes visited and personal instruction given.

A traveling moving picture concern is showing for us once a week a film on typhoid fever, its cause and prevention.

At Sumter and Lee County Fairs we had health exhibits which were pronounced by many to be the best ever seen in the State. Some photographs of the Sumter County exhibit are attached to this report.

LABORATORY WORK.

4,966 persons have been examined for hook work disease. Practically all of these are children of school age. These children are being treated as rapidly as possible, our nurses personally visiting the homes and administering these treatments.

VACCINATION, CONTAGIOUS AND INFECTIOUS DISEASES.

In two of our counties during the year, we have had serious outbreaks of typhoid fever, which have been controlled by inoculations, 1,269 anti-typhoid inoculations having been given in these counties by the doctors in charge of our units.

During the medical inspection work a large number of cases of Trachoma have been discovered in schools in Lexington County and we have succeeded in getting a great many of these children treated in private hospitals. At present we are looking forward to the establishment of a hospital for the free treatment of this disease.

MEDICAL INSPECTION.

324 schools have been inspected in our six counties, consisting of 14,997 pupils, 7,107 defectives found and 9,117 defects found.

We feel very proud of the success of our pioneer work in the inspection of rural schools, the results of which will appear under the next heading.

RESULTS.

Darlington County was the first in South Carolina in which each rural school child, both white and colored, was given medical

inspection. This was accomplished during the first quarter of 1919 and to date the follow-up work shows that 75 per cent. of the parents have consulted physicians and specialists in having these defects corrected. We have succeeded in getting free treatment in a number of cases where parents were financially unable to have defects corrected.

In Orangeburg County, where we have been working for three years, we have by education and sanitation reduced the typhoid death rate 75 per cent. and in Darlington, where we have worked two years, the typhoid death rate has been reduced 80 per cent. In these counties we have given practically no typhoid inoculations. Adjoining counties where no work has been done, show in two counties, an increase of 200 per cent. typhoid death rate, one county an increase of 25 per cent. one 12 1-2 per cent. decrease and one no change.

Throughout the State we are finding an increased interest in this type of work and six new counties are asking appropriation for County Health Units next year.

RECOMMENDATIONS.

We respectfully recommend to the State Board of Health that some plans be worked out and legislation secured by which each doctor in charge of a County Unit shall be designated as County Health Officer and be empowered to take charge of epidemics, and that physicians in these counties be instructed to report their contagious and infectious diseases to their Health Officers as well as to the State in order that they may be at once investigated; and further recommend that the County Health Officer be empowered and instructed to investigate epidemics and institute quarantine whenever necessary or advisable.

We further recommend and request that the State Board of Health use its influence to secure adequate salaries for County Health Officers in South Carolina, in order that we may be able to keep men in public health work. At present, with ever advancing cost of living, our men can scarcely support their families on their meager salaries, and it is impossible to lay up anything for a rainy day. The salaries in South Carolina are the lowest of any of the Southern States.

Below is a statistical report of all work done during the year 1919, by the combined units of County Health Work.

Respectfully submitted,

L. A. RISER, M. D.

STATISTICAL REPORT FOR THE YEAR 1919 DEPARTMENT COUNTY HEALTH WORK.

CONSTRUCTIVE WORK.

Number Septic Tanks installed	1,034
Number Pits installed	517
Number Buckets installed	37
Number Homes screened	295

EDUCATIONAL.

Number Lectures delivered	356
Attendance	23,996
Number Clubs organized	71
Number members enrolled	2,380
Literature distributed	38,334
Letters written (office)	4,431
Circular letters mailed	8,374
Number homes visited by inspectors	5,291
Number homes visited by nurses or social workers.....	5,658
Number of homes visited by directors	5,219
Total homes visited	16,168

LABORATORY WORK.

Number examined for hookworm	4,966
Number infected	1,057
Number treated	327

VACCINATIONS.

Number inoculations typhoid	2,944
Number vaccinations smallpox	1,050

CONTAGIOUS AND INFECTIOUS DISEASES.

Number contagious diseases investigated	1,199
Number typhoid cases investigated	117
Number tuberculosis cases investigated	152
Number other diseases investigated	350

MEDICAL INSPECTION.

Number schools inspected	324
Number pupils inspected	14,997
Number defective	7,107
Number defects	9,117

OTHER WORK.

Number Cotton Mills sewered previous to 1919	23
Number Cotton Mills sewered during 1919	27
Number Cotton Mills in process of sanitation	13
Number Cotton Mills using cans with scavenger system ...	9

SOUTH CAROLINA SANATORIUM.

To the Chairman and Members of the Executive Committee of the South Carolina State Board of Health.

Gentlemen: During the past year one hundred and fifty-six patients, seventy-three women and eighty-three men, have been admitted to the South Carolina Sanatorium. Upon admission the men were classified as follows: Incipient, two; moderately advanced, thirty-nine; far advanced, thirty-six; non-tuberculous, one; not classified, five. They were discharged as follows: Improved, twenty-four; not improved, fifteen; quiescent, three; apparently arrested, two; dead, eight. The grouping of the women upon admission was: Incipient, three; moderately advanced, thirty-six; far advanced, thirty-three; not classified, one. Upon discharge: Improved, fourteen; not improved eighteen; apparently arrested, two; dead, nine.

The following complications occurred: *Tabes dorsalis*, *pel-lagra*, *empyema*, *prostatitis*, *herpes zoster*, mumps, insanity, one case each; *fistula*, *morphinism*, *otitis media*, two cases each; *sypilis*, four cases; *tuberculous enteritis*, four cases; *tuberculous laryngitis*, seventeen cases.

The residence of patients at the Sanatorium has lengthened. Six men and two women remained less than ten days; six men and four women less than thirty days; twelve men and twelve women, one to three months; fifteen men and eleven women, three to six months; four men and five women, six to nine months; five men and four women, nine to twelve months; eight men and three women, more than a year.

Practically all beds have been occupied throughout the year. Many applicants were not accepted on account of no available accommodations, and there is a waiting list now. From time to time inquiries are made for the admission of children. Since it is generally accepted that childhood is the time of infection, it would seem the part of wisdom to attack the problem at its

source by providing instruction in the schools, and treatment for children at the Sanatorium.

The institution's dairy herd of twelve tuberculin-tested cows has furnished an abundance of milk. Since the new, modern cow barn and milk room will soon be ready for use, it is suggested that an experienced dairy man be employed and the herd enlarged so as to supply butter for the institution. This will prove a real economy at the present prices of dairy products. It will be necessary to provide a home for the dairy man. Fencing of the farm into small lots for grazing purposes will lessen the cost of milk production. We have had Mr. E. L. Filby, State Sanitary Engineer, to make a survey of the springs near the cow barn with the idea of installing a hydraulic ram to furnish water to the barn and milk room. He thinks it practicable, and suggested that water be pumped to the main buildings in the same way, as there is an abundant supply. This would save considerable money, as a hydraulic ram operates almost without expense after being properly installed.

The institution has outgrown the crude method of sputum disposal by burning in a pit, which is subject to criticism, and request is made for a garbage cooker and incinerator.

We suffered severe losses from hog cholera last January and February. A new start with cholera-immunized Berkshires has been made, so that such a disaster will not reoccur.

The need for a refrigerating plant is felt more and more. An estimate of the cost of installing a machine was secured and referred to Dr. Hayne.

The servant problem has been as serious with us as it has been with others. It is believed our troubles would be lessened if sufficient servants' houses were furnished, as labor can be controlled more easily when houses are supplied.

Your Board selected a site upon the eastern border of the Sanatorium tract for the Palmetto Sanatorium for Negroes. Work was begun upon this institution during the summer. The Wilson tract of land should be bought or acquired by condemnation proceedings in order to secure an approach to the Palmetto Sanatorium.

The advisability of transferring the Delco lighting plant, now in use, to the Palmetto Sanatorium and securing a larger one for the South Carolina Sanatorium is mentioned. We need a plant of sufficient size to operate deep well pumps, a refrigerating plant,

laundry, x-ray apparatus, and furnish lights. However, I think current should be secured from Columbia or elsewhere if proper rates be furnished.

Repairs are necessary for the porch roofs of the administration building, and to the plastering in it and in the men's and women's shacks. The mattresses in the men's shack should be remade, and the beds need re-enameling. The need for cement walks has been more evident the past year than ever. More sand is carried into the building in dry weather than when it is wet. In addition to improving the appearance of the grounds, cement walks would lessen the labor of keeping the buildings clean and add to the convenience of patients and visitors.

At the annual report of December 20, 1918, there was \$593.52 cash on hand. Cash on hand today (December 1, 1919,) is \$490.49. The Superintendent was relieved of collecting board from the patients in March, 1919. During the fiscal year the sum of \$4,423.56 was collected. Of this amount \$3,250.33 was paid to the treasurer, Dr. Hayne, who furnished a contingent fund to the amount of \$10,072.77. Supplies and miscellaneous expenditures for the year have amounted to \$11,349.03.

I wish to express my appreciation of the support and co-operation of your Board, the State Health Officer, and the nurses, employees and patients at the Sanatorium, by whose combined help the work has been done.

Respectfully submitted,

ERNEST COOPER, M. D.,
Superintendent.

REPORT OF FIELD SECRETARY, SOUTH CAROLINA SANATORIUM.

The following budget was appropriated by the Legislature of 1918:

Maintenance of South Carolina Sanatorium.....	\$15,000 00
Relief and education of tubercular patients.....	5,000 00
Beds for one patient from each county, and expenses necessary to erect tent unit.....	10,000 00
Ward for colored patients.....	10,000 00
Dairy	8,000 00
	<hr/>
	\$48,000 00

SANATORIUM FOR NEGROES.

Besides the general running expenses of the institution and a further appropriation for a dairy, the Legislature made a donation towards the erection of a sanatorium for the negroes of the State. The sum of ten thousand dollars was given which has since been supplemented by a contribution of six thousand seven hundred and twenty-nine dollars and seventy-eight cents raised by the negroes of the State since the adjournment of the Legislature.

The building which in normal times would have cost sixteen thousand dollars has been estimated at twenty-three thousand dollars. The sanatorium is now under process of construction, and the first payment of five thousand eight hundred and fifty-two dollars and ninety-five cents has already been made. The State Board of Health will ask the Legislature to give six thousand dollars towards the completion of this building. The negroes will raise the few hundred dollars necessary to complete the deficit.

You realize fully, no doubt, the immense good that such an institution will do in an educational, as well as a curative way. I have many times emphasized the necessity for an attack upon this disease where the mortality is greatest. The tuberculosis infection of the negroes exceeds that of the whites three to one.

There have been so many applications from the negroes, that I felt that some temporary arrangements must be made for them until they could be admitted at the State Sanatorium. I, therefore, went over to Sumter and had a conference with the committee on admittance to Camp Alice. Arrangements were made for the immediate acceptance of four negro patients, one from Calhoun, one from Richland, one from Newberry and one from Florence County. Of these, one will pay all of his expenses, and the other three will be cared for by the State appropriation for free beds.

RELIEF AND EDUCATION.

We have had during the past year four health workers in the field. Miss Irene Covington, a white graduate nurse, has given excellent service in demonstrating county health nursing in the counties. In future our nurses will not do exclusively tuberculosis work, but will include child welfare work and school nursing. We do this with the advice of the State Health Officer.

Mrs. Rebecca Walton, our State colored worker, has effected a splendid organization in the churches and clubs among the negroes. This organization is most useful to us in raising funds for the sanatorium. She has also spent a great deal of time in making health talks to the negroes in various counties of the State.

A colored woman from Charleston was employed during our drive for sanatorium funds to make talks on tuberculosis, and to popularize the work in various counties. As an adjunct to our educational work, we have also had the services of a competent colored woman who was employed by the South Carolina Tuberculosis Association.

A most excellent feature of our educational work was an exhibit at the State Fair, gotten up by the Superintendent and nurses of the Sanatorium. Several of our ex-patients in the State came to assist us in the booth. These men and women have been able to return to their work, and were glad to testify to the excellence of the treatment at the South Carolina Sanatorium. If for educational purposes alone, they say that it is worth everything to be instructed along the lines of prevention and cure of tuberculosis as set forth by Dr. Cooper and the able nurses of his staff. One of the women who assisted at the booth had gained eighty-six and a half pounds in the last two years. There were many fine records of cases showing slow and rapid recovery.

FREE BED FUND.

Last year the General Assembly gave a fund of ten thousand dollars to be used for free treatment at the South Carolina Sanatorium. This sum provided for a free bed from every county for a short time. Some of the counties have been delinquent in sending patients, and in such instances, worthy and indigent patients from other counties have been taken in temporarily. Too much cannot be said in regard to the life-saving quality of this appropriation. Many would have been unable to procure treatment under any other circumstances. This fund has positively saved the lives of scores of those who would otherwise have died for want of care. It is pathetic and gratifying to note the appreciation of the recipients of the free beds. It is also worthy of comment to note that there seems to be no disposition to impose upon this provision for free treatment. We find that those who are able to pay are glad to meet their own expenses. The financial condition of an applicant for a free bed is always

investigated. Sixty-nine patients have received free treatment from the fund denoted by the State for that purpose. Some of these patients have remained only a few weeks, while others have taken the treatment for several months. Three negroes have been cared for at the negro ward at Camp Alice, Sumter. The following counties have been represented: Williamsburg, Florence, Anderson, Oconee, Horry, Union, Fairfield, Kershaw, Aiken, Newberry, Lexington, Chesterfield, Spartanburg, Greenwood, Orangeburg, Dorchester, Richland, Charleston, Georgetown, Sumter, Edgefield, York, Laurens, Marlboro, Chester, Lee, Greenville, Lancaster and Darlington.

No person applying for free treatment has been denied this opportunity when the financial condition of the patient warranted the request.

APPROPRIATIONS FROM COUNTIES, CITIES AND OTHER AGENCIES.

The County Supply Bills in the following counties made appropriations for the maintenance of free beds at the Sanatorium. The counties donating funds are: Abbeville, Charleston, Cherokee, Colleton, Florence, Georgetown, Laurens, Spartanburg and Williamsburg. Twelve patients have been cared for by the county funds.

The City of Charleston and the City of Columbia maintain free beds at the Sanatorium. The Pacific Mills of Columbia maintain a patient also.

COMMITTEE ON ADMITTANCE.

As clerk of the committee, we have received all applications for treatment at the Sanatorium. We have investigated all cases applying for free treatment, and have conducted all business arrangements with counties and other agencies making contributions. We have received all funds paid by the patients at the Sanatorium who are responsible for their own expenses.

SUGGESTED IMPROVEMENT FOR COUNTY HOMES IN THE STATE.

We have written letters to all County Supervisors in the State, requesting that they enlarge their homes sufficiently to accommodate such tubercular patients as are willing to take advantage of this opportunity. The housing and care of the mendicant class of tuberculous patients at the various County Homes throughout the State would solve the problem in our sanatorium work.

FINANCIAL STATEMENT FROM APRIL 3RD TO DECEMBER 3RD.

Funds received at this office from pay patients at the Sanatorium	\$4,003 75
Funds paid by counties and cities.....	1,655 50
Voluntary contributions to support of tuberculous families and campaign expenses for the negro sanatorium	750 00
Amount collected from the negroes of the State for the Palmetto Sanatorium fund.....	6,582 73
Amount due from counties and cities up to January 1, 1920	1,074 00
Amount due from pay patients up to January 1, 1920..	332 00
Total receipts	\$4,003 75
	1,655 50
	750 00
	6,582 73
	<hr/>
	\$12,991 98
Total amounts due	\$1,074 00
	332 00
	<hr/>
	\$1,406 00

We have at present the sum of one thousand nineteen dollars and seventy-three cents from the free bed fund of the State. This amount will be used during the month of December for the up-keep of patients who occupy free beds at the Sanatorium.

Respectfully submitted,
Field Secretary, South Carolina Sanatorium.

SANITARY ENGINEER ANNUAL REPORT.

The Executive Committee of the South Carolina State Board of Health.

Gentlemen: At your April meeting you saw fit to institute the position of sanitary engineer and instructions were issued to make the work popular with the people. To this end little attention has been paid to the problems of municipal water supplies and sewage disposal, except where specifically called for. The problem of rural sewage disposal and investigation of complaints have demanded considerable time.

Starting with no preliminary advertising campaign nor any funds for publicity work through the agency of bulletins, the work has increased until now requests are received nearly every day in regards to designs and specifications for sewage disposal plants. Blue printed plans and directions for construction have been sent to those applicants and where possible a field investigation has been done. The largest project in rural sanitation has been the placing at every school in Dillon County two sanitary septic closets. This work is now being conducted under exceptional difficulties, but when completed Dillon will be the only county in the State with 100 per cent. sanitation of schools. These tanks have attracted considerable attention and many people have profited by this illustration. Cotton mills have been especially active in this matter, the Lydia Mills at Clinton and the Palmetto Mill at Columbia are two examples. Columbia suburban developments and Charleston commercial interests may also be noted. The sewage disposal problems of several cities such as Timmonsville, Fountain Inn, Lake City, Gaffney, have been investigated or their construction plans approved. Furman desired a sewer line and a design has been furnished.

With reference to water supply, the rural problems have been few. Some combination of artesian wells and hydraulic rams have been effected. The South Carolina Sanatorium is now considering the substitution of spring water, ram pumped, for the continual expense of pumping from deep wells. The cities of Abbeville, Gaffney and Dillon requested investigations of their supplies and these were furnished as best as could be done with the available facilities. A traveling laboratory is needed. The Globe Mill at Gaffney and the Brogon Mill at Anderson are among the mills improving their water supplies after receiving information from the State.

Malaria and other complaint investigations have been conducted as they presented themselves. Malaria at Blenheim and Warrenville were especially troublesome. The complaint investigations were mainly of improper disposal of sewage and garbage, unsanitary hotels, etc. Two investigations of typhoid outbreaks were conducted—one at Camden and one at Bannister down near Pinopolis. Where possible the State has advised with the towns when questions of bond issues for water and sewer systems have come up.

The work is becoming known and the demands steadily increasing. The problems of water purification and sewage disposal—both rural and municipal—deserve more attention than can be given them with the present facilities for examination. The method of “long range” instruction by printed matter in the case of sewage disposal is not effective, for local conditions often govern the type of disposal plant. The people have to be shown how to correct their faults and a field force to supervise the actual construction is essential. The operation of the water filtration plants of the State is not as efficient nor intelligent as it should be, but this is due to lack of training on the part of the operators. Any man can operate a filter plant, but a plumber has to stand examination for a license.

Respectfully submitted,

E. L. FILBY, C. E.,
Sanitary Engineer.

REPORT OF CHEMIST AND BACTERIOLOGIST

To the Chairman and Members of the Executive Committee of the State Board of Health.

Gentlemen: I have the honor to submit the following tabulated report of analysis of samples of water from the public water supplies of South Carolina, made under the direction of the State Board of Health, in accordance with the Laws of South Carolina relating to the Purity of the Water Supplies of Towns and Cities, 1 Code, Sec. 1599; and of information as to officials of Local Boards of Health and plants, source, capacity, treatment, daily consumption and consumption per capita, discharge of sewage and disposition of garbage.

The analyses indicate that the water is of good quality, and that the plants have been well regulated.

Respectfully,
FRANCIS L. PARKER, M. D.

RESULTS IN PARTS PER MILLION.

Sample Drawn.	Chlorine.	Free Ammonia.	Albuminoid Am- monia.	Nitrogen as Ni- trates.	Nitrogen as Ni- trates.	Total Solids.	Bacterial Analy- sis.
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Water Supply at Abbeville, S. C.

Abbeville Water & Electric Plant. Owned by city. Superintendent, O. E. Hix. In charge of collection of samples, O. E. Hix. Chairman local Board of Health, Dr. C. H. Murray.
 Source: Creek, $1\frac{1}{4}$ miles from city. Capacity, 250,000 gallons per day; filtered by mechanical filters. Treatment, $\frac{1}{2}$ grain Alum per gallon. Capacity of plant 500,000 per day. Average consumption, 200,000 gallons per day. Consumption per capita, 40 gallons per day. Service metered. Sixty per cent. of residences using city water supply; 60 per cent. of city sewered and have water closets. Sewage empties into creek. No garbage disposal plant. Garbage dumped in old fields and gullies.

March 7, 1919	6.00	0.01	0.02	0.00	0.01	94.00	Negative
May 23, 1919	8.00	0.03	0.02	0.00	0.00	150.00	Negative
September 17, 1919	8.00	0.02	0.02	0.00	0.10	72.00	Negative
January 5, 1920	7.00	0.04	0.03	0.00	0.20	61.00	Negative

Water Supply of Alken, S. C.

City Water Works. Superintendent, H. Sudlow. In charge of collection of samples, J. L. McCarter. Chairman local Board of Health, I. W. Fowler.
 Source: Collection of springs $6\frac{1}{2}$ miles from city. Capacity 2,000,000 gallons per day; not filtered. Capacity of plant, pump-
 age, 1,500,000 gallons per day. Average consumption, 350,000 gallons per day. Consumption per capita, 80 gallons per
 day. Service, 100 per cent. city using city water supply.
 Sewerage system, 75 per cent. city sewered, 50 per cent. buildings connected with sewer and have water closets. Sand filter
 beds. Sewerage empties into small streams. No garbage disposal plant.

May 28, 1919	6.00	0.04	0.03	0.001	0.30	44.00	Negative
August 2, 1919	5.00	0.03	0.02	0.001	0.10	25.00	Negative
September 29, 1919	6.00	0.05	0.01	0.001	0.10	21.00	Negative
December 6, 1919	5.00	0.03	0.04	0.00	0.30	23.00	Negative

Water Supply of Allendale, S. C.

Commission of Public Works. Owned by town. Superintendent, J. W. Mallard. In charge of collection of samples, J. W. Mallard. Chairman of local Board of Health, Dr. J. E. Warnock.
Source: Well near the center of town; not filtered. Capacity, 50,000 gallons per day. Average consumption, 25,000 gallons per day. Consumption per capita, 42 gallons per day. Service metered, 60 per cent. of residences using city water supply; 60 per cent. of buildings connected with sewer and have water closets. Septic tank and sprinkling filter. Sewerage empties into Coosawhatchie River. No garbage disposal plant. Garbage dumped in open fields $1\frac{1}{2}$ miles from city and burned.

March 6, 1919	5.00	0.01	0.03	0.00	0.00	158.00	Negative
May 20, 1919	5.00	0.02	0.04	0.00	0.00	57.00	Negative
September 11, 1919	5.00	0.01	0.02	0.00	0.00	142.00	Negative
December 11, 1919	4.00	0.02	0.03	0.00	0.00	142.00	Negative

Water Supply of Anderson, S. C.

Southern Public Utilities Company. Manager, H. A. Orr. In charge of samples, R. T. Long. Chairman local Board of Health, Dr. Frank Ashmore.
Source: Bailey's Creek, 2 miles from the city. Capacity 4,000,000 gallons per day. Filtered by mechanical filter. Treatment $\frac{1}{2}$ grain Alum per gallon. Capacity of plant, 1,300,000 gallons per day. Consumption per capita, 50 gallons per day. Service metered. Ninety-three per cent. of buildings use city water supply. Sewage empties into Rack River and Jenstee Creek. Garbage dumped at incinerator and burned.

March 19, 1919	8.00	0.03	0.03	0.00	0.00	85.00	Negative
May 26, 1919	4.00	0.01	0.02	0.00	0.30	82.00	Negative
September 10, 1919	6.00	0.01	0.02	0.00	0.20	91.00	Negative
December 17, 1919	4.00	0.02	0.03	0.00	0.10	52.00	Negative

Water Supply of Barnwell, S. C.

Barnwell Light & Water Works. Owned by the city. Superintendent, F. H. Miller. In charge of collection of samples, F. H. Miller. Chairman local Board of Health, Dr. J. G. Woolsey.
Source: Two wells in city, $4\frac{1}{2}$ and 6 inches in diameter, 151 feet deep. Capacity, 72,000 gallons per day. Not filtered. Capacity of plant, 72,000 gallons per day. Average consumption, 30,000 gallons per day. Consumption per capita, 30 gallons per day. Service 50 per cent. metered, 50 per cent. buildings using city water supply. No sewerage system, 90 per cent. of buildings have water closets; 10 per cent. have septic tanks.

March 5, 1919	6.00	0.01	0.03	0.00	0.00	130.00	Negative
May 20, 1919	6.00	0.01	0.01	0.00	0.20	104.00	Negative
September 8, 1919	6.00	0.02	0.02	0.00	0.00	104.00	Negative
December 8, 1919	6.00	0.01	0.01	0.00	0.00	90.00	Negative

RESULTS IN PARTS PER MILLION (Continued).

Sample Drawn.	Chlorine.	Free Ammonia.	Albuminoid Am- monia.	Nitrogen as NI- trates.	Nitrogen as NI- trates.	Total Solids.	Bacterial Analy- sis.
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Water Supply of Batesburg, S. C.

Commission of Public Works. Owned by town. Superintendent, R. E. Hoover. In charge of collection of samples, R. E. Hoover. Chairman local Board of Health, Dr. R. H. Timmerman.
Source: Two wells in city. Not filtered. Capacity 36,000 gallons per day. Capacity of plant 200,000 gallons per day; aver-
age consumption 20,000 gallons per day. Consumption per capita, 2 gallons per day. Service metered. 100 per cent.
buildings using city water supply; 10 per cent. septic tanks. No sewerage system. No garbage disposal plant. Garbage
hauled outside city and burned.

April 2, 1919	4.00	0.01	0.02	0.00	0.00	107.00	Negative
September 19, 1919	4.00	0.02	0.01	0.00	0.30	112.00	Negative
December 16, 1919	7.00	0.02	0.02	0.00	0.10	115.00	Negative

Water Supply of Beaufort, S. C.

Town of Beaufort, S. C. Water & Light Department. Superintendent Public Works, H. R. Pollitzer. In charge of collection
of samples, H. R. Pollitzer. Chairman local Board of Health, Dr. C. M. Guffin.
Source: Well 12 inches in diameter and 125 feet deep. In center of city. Not filtered. Average consumption 50,000 gallons
per day. Consumption per capita, 200 gallons per day. Service not metered, 30 per cent. buildings connected with city
water supply. No sewerage system; 50 per cent. private sewers. Sewerage empties into Salt Water River. No sewer-
age disposal plant. Garbage dumped at edge of city limits and burned.

March 13, 1919	33.00	0.05	0.05	0.00	0.00	227.00	Negative
May 23, 1919	32.00	0.04	0.03	0.00	0.00	223.00	Negative
October 4, 1919	36.00	0.04	0.04	0.002	0.10	182.00	Negative
December 11, 1919	34.00	0.07	0.03	0.00	0.00	227.00	Negative

Water Supply of Bennettsville, S. C.

Bennettsville Electric & Water Plant. Owned by city. Manager, E. C. Morrison. In charge of collection of samples, E. C. Morrison and J. M. Easterling. Chairman local Board of Health, Dr. O. A. Matthew. Capacity of plant 500,000 gallons per day. Eight wells 4½ inches in diameter, 60 feet deep, pumped. Average consumption 220,000 gallons per day. Capacity of plant 500,000 gallons per day. Consumption per capita, 60 gallons per day. Service metered, 95 per cent. Buildings in the business and residence section and 45 per cent. buildings in corporate limits using city water supply. Sewerage system, 87 per cent. of buildings in the residence section and business section and 45 per cent. buildings in entire corporate limits connected with sewer and have water closets. Septic tank. Sewage empties into Crooked Creek, 1½ miles from city. Garbage disposal plant.

March 8, 1919	15.00	0.02	0.01	0.00	0.50	56.00	Negative
May 10, 1919	16.00	0.03	0.02	0.00	0.60	92.00	Negative
September 13, 1919	16.00	0.02	0.02	0.00	0.50	59.00	Negative
December 12, 1919	19.00	0.01	0.02	0.00	0.50	83.00	Negative

Water Supply of Camden, S. C.

Municipal Water & Light Plant. Superintendent, E. D. McCutchen. In charge of collection of samples, John W. Wilson and E. D. McCutchen. Chairman local Board of Health, W. G. Wilson. Source: Spring-fed Creek, 1 mile from city limits. Capacity, 7,200,000 gallons per day; filtered by mechanical filters. Treatment 1½ grains Alum per gallon, 1.29 grains Soda Ash per gallon. Capacity of plant, 575,000 gallons per day. Service 54 per cent. of buildings connected and using city water supply. Sewerage system, 81 per cent. of buildings connected with sewerage system and have water closets. Sewage empties into Wateree River. No garbage disposal plant. Garbage emptied on outskirts of town and partly burned.

March 14, 1919	4.00	0.01	0.03	0.00	0.10	56.00	Negative
June 3, 1919	4.00	0.01	0.02	0.00	0.10	64.00	Negative
October 6, 1919	5.00	0.02	0.02	0.00	-0.10	35.00	Negative
December 17, 1919	5.00	0.01	0.04	0.00	0.10	29.00	Negative

Water Supply of Charleston, S. C.

City Water Department. Commission of Public Works. Manager and Engineer, James E. Gibson. In charge of collection of samples, Dr. F. L. Parker. Chairman of the local Board of Health, J. A. Ball. Source: Goose Creek, 12 miles from the city. This is an impounded supply, the reservoir being an old tide water basin dammed off from tidal sea water. Area of flooded reservoir, 2,500 acres. Capacity of reservoir, 3,000,000 gallons, which would supply 10,000,000 gallons per day. Filtered by mechanical filter. Treatment, Sulphate of Alumina, Hydrate of Lime and Liquid Chlorine. Capacity of plant, 7,000,000 gallons per day. Average consumption, 6,500,000 gallons per day. Consumption per capita, 100 gallons per day. Service, 70 per cent. metered. Sewerage system: Sewage empties into Charleston Harbor. Garbage disposal plant, incinerator.

March 11, 1919	14.00	0.02	0.20	0.00	0.20	118.00	Negative
May 28, 1919	17.00	0.01	0.16	0.00	0.20	130.00	Negative
September 17, 1919	12.00	0.01	0.08	0.00	0.20	95.00	Negative
January 10, 1920	26.00	0.02	0.08	0.00	0.30	98.00	Negative

RESULTS IN PARTS PER MILLION (Continued).

Sample Drawn.	Chlorine.	Free Ammonia.	Albuminoid Am- monia.	Nitrogen as Ni- trates.	Nitrogen as Ni- trates.	Total Solids.	Bacterial Analy- sis.
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Water Supply of Chester, S. C.

Chester Water Works, owned by city. Superintendent, J. H. McLure. In charge of collection of samples, J. H. McLure. Chairman local Board of Health, Dr. S. W. Prior.
Source: River 3 miles from city. Capacity 7,200,000 gallons per day, filtered by mechanical filter. Treatment, 2 grains of Alum per gallon. Capacity of plant, 720,000 per day. Average consumption, 300,000 gallons per day. Consumption per capita, 60 gallons per day. Service metered, 85 per cent. of buildings using city water supply.
Sewerage system: 85 per cent. of city sewered and have water closets. No sewerage disposal plant. Sewage empties into Tan Yard Branch. Incinerator installed for disposal of garbage.

March 8, 1919	9.00	0.01	0.02	0.00	0.00	134.00	Negative
May 22, 1919	8.00	0.01	0.02	0.00	0.20	89.00	Negative
September 9, 1919	8.00	0.01	0.01	0.00	0.20	91.00	Negative
December 6, 1919	7.00	0.02	0.02	0.00	0.00	83.00	Negative

Water Supply of Clinton, S. C.

Municipal Water & Light Plant. Superintendent, B. B. Mills. In charge of collection of samples, B. B. Mills. Chairman local Board of Health, Dr. T. L. W. Bailey.
Source: Two wells, 16 and 8 inches in diameter and 500 feet deep, in city. Capacity, 180,000 gallons per day; not filtered. Average consumption, 75,000 gallons per day. Consumption per capita, 25 gallons per day. Service metered, 80 per cent. of buildings using city water supply.
Sewerage system, 75 per cent. of buildings connected with sewer and have water closets. Septic tanks. Sewerage empties into two streams. No garbage disposal plant. Garbage dumped outside city limits.

March 7, 1919	11.00	0.01	0.02	0.00	0.30	239.00	Negative
May 20, 1919	10.00	0.03	0.03	0.00	0.40	198.00	Negative
September 10, 1919	11.00	0.01	0.01	0.00	-0.40	214.00	Negative
December 8, 1919	9.00	0.01	0.01	0.002	0.50	222.00	Negative

Water Supply of Columbia, S. C.

Water Department, City of Columbia, S. C. Owned by city. Superintendent, F. C. Wyse. In charge of collection of samples, G. H. White, for Water Works and Frienchen Simpson for Board of Health. Local Health Officer, Dr. C. E. Smith. Source: Congaree River, one mile from city. Capacity, practically unlimited. Filtered by rapid sand filters. Capacity of plant, 13,000,000 gallons per day. Treatment, 1.0 grain Alum per gallon. Average consumption 9,000,000 gallons per day. Consumption per capita within city, 141 gallons per day, in cantonment, 79 gallons per day. Service metered, 39 per cent. buildings used city water.

Sewerage system: 85 per cent. of buildings connected with city sewer and have water closets. Sewage empties into Congaree River. Garbage is being dumped in out of the way places and covered with earth at present, and one garbage disposal plant is now under construction.

March 8, 1919	7.00	0.02	0.01	0.00	0.10	50.00	Negative
May 29, 1919	5.00	0.01	0.01	0.00	0.10	65.00	Negative
September 15, 1919	5.00	0.02	0.03	0.00	0.20	38.00	Negative
December 13, 1919	6.00	0.02	0.03	0.00	0.00	26.00	Negative

Water Supply of Darlington, S. C.

Carolina Gas & Electric Co. Superintendent, C. L. Romydy. In charge of collection of samples, C. L. Romydy. Chairman of local Board of Health, Dr. J. T. Coggeshall. Source: Wells, diameter 8 inches, depth 385 feet; diameter 6 inches, depth 200 feet; diameter 6 inches, depth 195 feet, in city. Capacity, 288,000 gallons per day. Filtered by a mechanical filter. Treatment 0.4 grain Soda Ash per gallon, 0.2 grain per gallon Alum. Capacity of plant 225,000 gallons per day. Average consumption, 125,000 gallons per day. Consumption per capita, 35 gallons per day. Service metered 75 per cent. of buildings using city water supply. Consump- tion per capita, 35 gallons per day. Sewerage system: Almost all of town is sewerred, 50 per cent. of buildings connected with sewer and have water closets.

March 14, 1919	9.00	0.01	0.02	0.00	0.00	67.00	Negative
May 26, 1919	5.00	0.01	0.02	0.00	0.00	94.00	Negative
September 9, 1919	7.00	0.02	0.03	0.00	0.00	53.00	Negative
December 11, 1919	5.00	0.01	0.02	0.00	0.00	65.00	Negative

Water Supply of Dillon, S. C.

Dillon, Water Works Plant. Owned by city. Secretary and Treasurer, B. A. Bedenbaugh. In charge of collection of sam- ples, M. D. Davis. Chairman of local Board of Health, Dr. J. A. Hamer. Source: About 2 miles from city, river. Capacity, 288,000 gallons per day. Filtered by a mechanical filter. A duplicate pumping system has been installed at river. Treatment, Soda Ash and Alum. Capacity of plant, 130,000 gallons per day. Average consumption 20,000 gallons per day. Consumption per capita, 30 gallons per day. Service metered, 50 per cent. of buildings using city water supply; 75 per cent. of city connected with sewerage system; 50 per cent. of build- ings have water closets. Septic tank. Sewerage empties into Pee Dee River. No Garbage disposal plant. Garbage dumped in low and suitable places.

March 7, 1919	9.00	0.01	0.02	0.00	0.10	71.00	Negative
September 8, 1919	9.00	0.01	0.02	0.00	0.30	34.00	Negative
December 17, 1919	8.00	0.02	0.02	0.001	0.40	29.00	Negative

RESULTS IN PARTS PER MILLION (Continued).

Sample Drawn.	Chlorine.	Free Ammonia.	Albuminoid Ammonia.	Nitrogen as Nitrates.	Nitrogen as Nitrates.	Total Solids.	Bacterial Analysis.
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Water Supply of Easley, S. C.

City Water & Light Plant. Owned by city. Superintendent, C.D. Bolt. In charge of collection of samples, C. D. Bolt. Chairman local Board of Health, Ed. Farr.
 Source: Wells and branch. Wells, diameter 2 inches, depth 40 feet, pumped. Distance from city, three-quarters of a mile. Capacity 200,000 gallons per day. Branch water filtered by mechanical filter. Treatment, Lime and Sulphate of Alumina. Average Consumption, 75,000 gallons per day. Consumption per capita, 17 gallons per day. Service metered, 75 per cent of buildings use city water supply. Six miles of sewerage, disposal septic tank. No garbage disposal plant. Garbage dumped into large ditch.

March 18, 1919	5.00	0.01	0.03	0.00	0.30	41.00	Negative
May 29, 1919	4.00	0.01	0.01	0.00	0.20	49.00	Negative
September 15, 1919	3.00	0.02	0.01	0.00	0.40	31.00	Negative
January 5, 1920	4.00	0.01	0.02	0.00	0.30	38.00	Negative

Water Supply of Florence, S. C.

City of Florence Water Department. Owned by city. Superintendent, ——. In charge of collection of samples, ——. Chairman local Board of Health, Dr. J. G. McMaster.
 Source: Well, 12-10-8 inch casing, 6 inch discharge, 650 feet deep; pump, air, in center of city hall. Capacity 600,000 gallons per day; not filtered. Average consumption, 550,000 gallons per day. Consumption per capita, 91 gallons per day. Service metered 50 per cent of buildings using city water supply.
 Sewerage system: 60 per cent of city sewerage; 40 per cent connections and water closets. Sewage disposal plant. Sewage empties into Jeffries Creek. Garbage disposal plant. Nye odorless incinerator, 10-ton capacity, located on outskirts of city.

March 14, 1919	7.00	0.01	0.01	0.00	0.10	92.00	Negative
October 2, 1919	5.00	0.01	0.01	0.00	0.10	65.00	Negative
December 9, 1919	5.00	0.01	0.02	0.00	0.00	83.00	Negative

Water Supply of Gaffney, S. C.

Board of Public Works. Owned by city. Superintendent, L. V. Gaffney. In charge of collection of samples, L. V. Gaffney. Chairman of local Board of Health, G. G. Byers.
Source: Cherokee Creek, 3½ miles from city; filtered by gravity filter. Treatment, 1 grain Alum per gallon. Capacity of plant, 1,000,000 gallons per day. Average consumption, 150,000 gallons per day. Consumption per capita, 25 gallons per day. Service metered, 12 per cent. of buildings using city water supply.
Sewerage system: 8 per cent. of buildings connected with sewer and have water closets. Sewage disposal plant. Sewage empties into branch. Garbage disposal plant, incinerator. Septic tank.

March 14, 1919	6.00	0.02	0.02	0.00	0.20	112.00	Negative
May 24, 1919	5.00	0.01	0.03	0.00	0.20	120.00	Negative
September 19, 1919	4.00	0.01	0.01	0.00	0.20	74.00	Negative
January 5, 1920	5.00	0.04	0.03	0.00	0.20	48.00	Negative

Water Supply of Georgetown, S. C.

Black River Water Company, R. J. Clifford, President. In charge of collection of samples, Dr. H. L. Wright. Chairman local Board of Health, Dr. W. W. Gaillard.
Source: Black River, 75 miles from city by river, 15 miles by air line. Capacity 1,000,000 gallons per day. Filtered by slow sand filter. No treatment. Capacity of plant, 1,000,000 gallons per day. Average consumption, 177,000 gallons per day. Consumption per capita, 75 gallons per day. Service, metered.
Sewerage system: 60 per cent. of city sewered. Sewage empties into Sampit River. No garbage disposal plant. Garbage dumped in low places on abandoned rice fields.

March 7, 1919	10.00	0.01	0.01	0.00	0.00	78.00	Negative
May 30, 1919	8.00	0.01	0.15	0.00	0.10	84.00	Negative
September 9, 1919	7.00	0.02	0.25	0.00	0.20	100.00	Negative
December 10, 1919	10.00	0.03	0.08	0.00	0.10	73.00	Negative

Water Supply of Graniteville, S. C.

Graniteville Manufacturing Company. Superintendent, G. H. Leitner. In charge of collection of samples, E. F. Delvin.
Source: Spring 1 mile from town. Not filtered. Capacity, 40,000 gallons per day. Average consumption, 22,000 gallons per day. Consumption per capita, 20 gallons per day. Service not metered; 2 per cent. of buildings using city water supply.
Sewerage system: 10 per cent. city sewered, 2 per cent. of buildings connected with sewer. Sewage empties into Horse Creek. No garbage disposal plant. Garbage dumped outside of town limits.

March 8, 1919	5.00	0.01	0.02	0.00	0.10	28.00	Negative
May 23, 1919	6.00	0.01	0.01	0.00	0.10	47.00	Negative
September 10, 1919	5.00	0.01	0.01	0.00	0.40	32.00	Negative
December 8, 1919	4.00	0.01	0.01	0.00	0.00	38.00	Negative

RESULTS IN PARTS PER MILLION (Continued).

Sample Drawn.

	Chlorine.	Free Ammonia.	Albuminoid Am- monia.	Nitrogen as NI- trates.	Nitrogen as NI- trates.	Total Solids.	Bacterial Analy- sis.
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Water Supply of Greer, S. C.

Commission of Public Works. Owned by city. Superintendent, C. C. McGowan. In charge of collection of samples, C. C. McGowan. Chairman local Board of Health, Dr. S. E. Holtzclaw.
Source: Four wells, in city. Capacity, 230,000 gallons per day; not filtered. Average consumption, 100,000 gallons per day. Service metered, 32 per cent. of buildings using city water supply.
Sewerage system: 30 per cent. of buildings connected with sewerage system and have water closets. Sewage empties into branches. No garbage disposal plant. Garbage dumped in fields outside city limits.

March 17, 1919	5.00	0.01	0.03	0.00	0.40	67.00	Negative
May 31, 1919	6.00	0.01	0.02	0.00	0.30	25.00	Negative
September 27, 1919	4.00	0.01	0.03	0.00	0.40	34.00	Negative

Water Supply of Greenville, S. C.

Greenville City Water Works. Superintendent, H. W. Perry. In charge of collection of samples, H. W. Perry. Chairman of local Board of Health, Dr. Davis Furman.
Source: Streams in Paris Mountain to reservoirs, 8 and 12 miles from city; gravity system. Capacity, 5,000,000 gallons per day; not filtered. Average consumption, 1,250,000 gallons per day. Consumption per capita, 40 gallons per day. Service metered, 98 per cent. of buildings using city water supply.
Sewerage system: 75 per cent. of city sewered and have water closets. Sewage empties into Reedy River. Garbage disposal plant. Garbage dumped at crematory and burned.

March 8, 1919	6.00	0.01	0.02	0.00	0.00	46.00	Negative
May 22, 1919	4.00	0.01	0.03	0.00	0.00	62.00	Negative
September 11, 1919	4.00	0.01	0.03	0.00	0.10	40.00	Negative
December 6, 1919	3.00	0.01	0.03	0.00	0.10	39.00	Negative

Water Supply of Greenwood, S. C.

Greenwood Water & Electric Plant. Owned by the city. Superintendent, A. J. Sproles. In charge of collection of samples, A. J. Sproles. Chairman local Board of Health, Dr. W. P. Turner.
 Source: Eight wells, diameter 8 inches, 300 feet deep, 1½ miles from city. Capacity, 1,440,000 gallons per day; not filtered. Average consumption, 350,000 gallons per day. Consumption per capita, 40 gallons per day. Service metered, 75 per cent. of buildings using city water supply.
 Sewerage system: 60 per cent. of city sewerred. Treatment, septic tank on to sand and gravel. No Garbage disposal plant. Garbage dumped on vacant lots.

March 7, 1919	7.00	0.01	0.02	0.00	0.20	238.00	Negative
May 22, 1919	7.00	0.02	0.06	0.00	0.00	241.00	Negative
September 19, 1919	8.00	0.01	0.03	0.001	0.10	231.00	Negative
December 19, 1919	7.00	0.01	0.03	0.00	0.00	209.00	Negative

Water Supply of Hartsville, S. C.

Board of Commission Public Works. Owned by the city. Superintendent, J. A. Tyner. In charge of collection of samples, J. A. Tyner. Chairman of local Board of Health, D. R. Coker.
 Source: Well 12 miles from the city, 3½ inches in diameter, 287 feet deep; pumped. Capacity 237,000 gallons per day; not filtered. Capacity of plant, 237,600-gallons per day. Average consumption, 175,000 gallons per day. Consumption per capita, 60 gallons per day. Service metered.
 Sewerage system: 65 per cent. of city sewerred. Sewage empties into Black Creek. Garbage disposal plant. Garbage burned.

March 5, 1919	10.00	0.02	0.01	0.00	0.00	72.00	Negative
May 22, 1919	4.00	0.03	0.01	0.00	0.00	23.00	Negative
September 12, 1919	3.00	0.02	0.02	0.00	0.10	34.00	Negative
December 8, 1919	3.00	0.02	0.02	0.00	0.00	19.60	Negative

Water Supply of Kingstree, S. C.

Kingstree Water Works. Owned by city. Superintendent, S. C. Anderson. In charge of collection of samples, S. C. Anderson. Chairman local Board of Health, T. McCutchen.
 Source: Well one-half mile from city, 3½ inches in diameter, 287 feet deep, pumped. Capacity, 237,600 gallons per day; not filtered. Capacity of plant, 237,600 gallons per day. Average consumption 175,000 gallons per day. Consumption per capita, 60 gallons per day. Service metered, 40 per cent. of buildings using city water supply.
 Sewerage system: 80 per cent. of city sewerred; 40 per cent. of buildings connected with sewerage and have water closets. Sewerage disposal plant; sewage treated with kerosene and salt. Sewage empties into Black Creek. No garbage disposal plant. Garbage dumped outside city and burned.

March 6, 1919	8.00	0.03	0.02	0.00	0.00	232.00	Negative
May 26, 1919	8.00	0.04	0.04	0.00	0.00	301.00	Negative
September 25, 1919	8.00	0.03	0.01	0.00	0.20	238.00	Negative
December 18, 1919	7.00	0.03	0.04	0.00	0.10	244.000	Negative

RESULTS IN PARTS PER MILLION (Continued).

Sample Drawn.	Chlorine.	Free Ammonia.	Albuminoid Am- monia.	Nitrogen as Ni- trates.	Nitrogen as Ni- trates.	Total Solids.	Bacterial Analy- sis.
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Water Supply of Lancaster, S. C.

In charge of Commission of Public Works. Owned by city. R. S. Harper, Superintendent. In charge of collection of samples, Dr. W. F. Laling. Chairman local Board of Health. W. R. Thompson.
Source: Two creeks $1\frac{1}{2}$ miles from city. Capacity, 1,000,000 gallons per day; filtered by mechanical filter. Treatment, 1 grain Alum per gallon. Capacity of plant, 720,000 gallons per day. Average consumption, 300,000 gallons per day.
Sewerage system: 70 per cent. of city sewered and have water closets. Service metered: 75 per cent. of buildings using city water supply. Consumption per capita, 20 gallons per day. Sewage empties into Little River. No garbage disposal plant. Garbage dumped outside city limits and treated with lime when necessary.

March 10, 1919	11.00	0.01	0.04	0.00	0.20	96.00	Negative
May 31, 1919	12.00	0.02	0.03	0.00	0.00	33.00	Negative
September 26, 1919	8.00	0.03	0.04	0.00	0.20	90.00	Negative
December 13, 1919	10.00	0.02	0.04	0.00	0.00	95.00	Negative

Water Supply of Laurens, S. C.

Municipal Light & Water Plant. Superintendent, J. E. Philpot. In charge of collection of samples, J. E. Philpot. Chair- man local Board of Health, Dr. R. E. Hughes.
Source: Wells and creek, within city limits; filtered with mechanical filter. Treatment, 1 grain Alum per gallon. Capacity of plant, 250,000 gallons per day. Average consumption, 250,000 gallons per day. Consumption per capita, 25 gallons per day. Service metered, 90 per cent. of buildings using city water supply.
Sewerage system: 75 per cent. of buildings connected with sewer and have water closets. Sewage empties into Little River. No garbage disposal plant. Garbage dumped outside city limits and treated with Lime when necessary.

March 14, 1919	9.00	0.03	0.06	0.001	0.40	97.00	Negative
May 23, 1919	10.00	0.01	0.02	0.00	0.50	103.00	Negative
September 12, 1919	6.00	0.01	0.03	0.00	0.30	124.00	Negative
January 5, 1920	9.00	0.02	0.04	0.00	0.50	94.00	Negative

Water Supply of Manning, S. C.

Manning Water Works. Owned by the city. Superintendent, F. P. Ervin. In charge of collection of samples, F. P. Ervin. Source: Well 6 inches in diameter and 485 feet deep. Capacity, 86,400 gallons per day. Not filtered. Total capacity of plant, 431,400 gallons per day. Average consumption, 24,000 gallons per day. Service metered, 60 per cent. of buildings using city water supply. Sewerage system: 75 per cent. of city sewerred, 15 per cent. water closets. Sewage empties into Black River Swamp. No garbage disposal plant.

May 27, 1919	7.00	0.05	0.04	0.00	0.50	205.00	Negative
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Water Supply of Marion, S. C.

Carolina Gas & Electric Co. General Superintendent, P. A. Tillery, Raleigh, N. C. In charge of collection of samples, D. Thomlinson, local Superintendent. Chairman local Board of Health, Dr. E. M. Dibble. Source: Wells, diameter 8 and 10 inches, depth 100 and 150 feet in city. Capacity, 150,000 gallons per day; not filtered. Capacity of plant, 150,000 gallons per day. Average consumption, 75,000 gallons per day. Consumption per capita, 15 gallons per day. Service metered, about 80 per cent. of buildings using city water supply. Sewerage system: Entire city sewerred; 40 per cent. of buildings connected with sewer and have water closets. Septic tank. Sewage empties into Catfish Creek. Garbage dumped on "Dump Grounds" outside city and set on fire. No garbage disposal plant.

March 20, 19	7.00	0.01	0.02	0.00	0.20	98.00	Negative
May 21, 1919	7.00	0.01	0.02	0.00	0.00	206.00	Negative
September 12, 1919	6.00	0.02	0.01	0.001	0.10	171.00	Negative
December 9, 1919	6.00	0.01	0.01	0.00	0.00	158.00	Negative

Water Supply of McColl, S. C.

City of McColl Water Works. Superintendent, J. H. Dougherty. In charge of collection of samples, J. H. Dougherty. Chairman local Board of Health, Dr. D. Hamer. Source: Two wells, 6 inches in diameter and 100 feet deep, pumped, within city. Capacity, 144,000 gallons per day; not filtered. Capacity of plant, 144,000 gallons per day. Average consumption, 80,000 gallons per day. Consumption per capita, 23 gallons per day. Service metered, 90 per cent. of buildings use city water supply. Sewerage system: Entire city sewerred; 50 per cent. of buildings have closets. Sewage empties into Planter Creek. Sewage disposal plant. No garbage disposal plant. Garbage dumped outside city limits.

March 6, 1919	10.00	0.02	0.02	0.00	0.00	50.00	Negative
March 28, 1919	8.00	0.02	0.01	0.00	0.40	61.00	Negative
September 19, 1919	6.00	0.02	0.01	0.00	0.40	26.00	Negative
December 16, 1919	5.00	0.02	0.02	0.00	0.20	29.00	Negative

RESULTS IN PARTS PER MILLION (Continued).

Sample Drawn.	Chlorine.	Free Ammonia.	Albuminoid Am- monia.	Nitrogen as Ni- trates.	Nitrogen as Ni- trates.	Total Solids.	Bacterial Analy- sis.
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Water Supply of Mullins, S. C.

Board of Public Works. Owned by town of Mullins. Superintendent, G. M. Brown. In charge of collection of samples, G. M. Brown. Chairman local Board of Health, Dr. J. W. Hollis.
Source: Deep well 10 inches in diameter, 350 feet deep, in city. Capacity, 125,000 gallons per day. Capacity of plant, 125,000 gallons per day; average consumption, 75,000 gallons per day. Service metered, 99 per cent, buildings using city water supply; 20 per cent. Septic tanks, 10 of 1 per cent.
Sewerage system: 40 per cent. city sewerd, 30 per cent. of buildings are connected with sewer and have water closets. Sewage empties into open stream, White Oak. No garbage disposal plant. Garbage dumped in city.

March 31, 1919	9.00	0.20	0.01	0.00	0.00	190.00	Negative
May 21, 1919	11.00	0.01	0.03	0.00	0.20	201.00	Negative
September 6, 1919	12.00	0.02	0.03	0.00	0.00	220.00	Negative
December 18, 1919	11.00	0.01	0.02	0.00	0.00	200.00	Negative

Water Supply of Newberry, S. C.

In charge of Commission of Public Works. Owned by city. Superintendent, H. W. Schumpert. In charge of collection of samples, Dr. F. K. Gilder. Chairman of local Board of Health, Dr. F. K. Gilder.
Source: Wells 2 and 8 inches in diameter, 300 and 325 feet deep; pumped by air, in city limits. Capacity, 216,000 gallons per day; not filtered. Average consumption, 140,000 gallons per day. Consumption per capita, 23 gallons per day. Service metered, 95 per cent. of buildings using city water supply.
Sewerage system: 75 per cent. connected with sewer. No connection in tenement houses in cotton mill districts. Using a system of "Pot Dry Closets." Sewage disposal plant. Septic tank and filter. Sewage empties into Scott's creek. Incinerator is installed for disposal of garbage.

March 6, 1919	38.00	0.01	0.01	0.00	0.06	333.00	Negative
May 20, 1919	34.00	0.01	0.04	0.00	0.70	331.00	Negative
September 8, 1919	33.00	0.02	0.04	0.00	0.30	242.00	Negative
January 5, 1920	34.00	0.00	0.02	0.001	0.60	340.00	Negative

Water Supply of North Augusta, S. C.

North Augusta Works. Owned by corporation. James U. Jackson, Receiver. In charge of collection of samples, W. E. Meal-ing. Chairman local Board of Health, W. E. Meal-ing.
Source: Springs forming lake in city. Not filtered. Treatment, 1.50 pounds Hypochlorite of Lime to 1,500,000 gallons. Ca-pacity, 400,000 gallons per day. Capacity of plant, 330,000 gallons per day. Average consumption 250,000 gallons per day. Service metered.
Sewerage system: 80 per cent. of city sewerred. Sewage empties into Savannah River. No garbage disposal plant. Garbage dumped outside of town.

March 11, 1919	7.00	0.01	0.02	0.00	0.60	70.00	Negative
January 5, 1920	8.00	0.01	0.05	0.00	0.50	56.00	Negative

Water Supply of Orangeburg, S. C.

Orangeburg Water & Light Plant. Owned by city. Superintendent, J. R. Fizer. In charge of collection of samples, J. R. Fizer. Chairman local Board of Health, Dr. C. I. Green.
Source: Wells, 5 and 8 inches in diameter, 200 feet deep, pumped and flowing in city. Capacity, 1,000,000 gallons per day; not filtered. Capacity of plant, 700,000 gallons per day. Average consumption, 230,000 gallons per day. Consumption per capita, 33 gallons per day. Service 60 per cent. metered.
Sewerage system: 50 per cent. of buildings connected with sewerage system and have water closets. Sewage empties into Edisto River. Garbage dumped at incinerator and burned.

March 12, 1919	10.00	0.01	0.01	0.00	0.00	224.00	Negative
May 22, 1919	8.00	0.01	0.01	0.00	0.00	192.00	Negative
September 16, 1919	7.00	0.02	0.01	0.00	0.00	173.00	Negative
December 11, 1919	7.00	0.02	0.02	0.00	0.00	186.00	Negative

Water Supply of Rock Hill, S. C.

Water & Electric Department, City of Rock Hill. Manager, J. G. Barnwell. In charge of collection of samples, S. T. Frew. Chairman local Board of Health, Dr. J. R. Miller.
Source: Catawba River, 6 miles from city. Filtered by mechanical filter. Treatment, $\frac{1}{2}$ grain of Alum per gallon, $\frac{1}{2}$ grain Lime per gallon, 0.05 grain Hypochlorite of Lime per gallon. Capacity of plant, 1,000,000 gallons per day. Average con-sumption, 275,000 gallons per day. Consumption per capita, 37 gallons per day. Service metered, 50 per cent. of build-ings using city water supply.
Sewerage system: 25 per cent. of buildings connected with sewerage system have water closets. Sewage empties into small streams after Imhoff tank treatment, thence into Catawba River. Sewerage disposal plant. Garbage dumped on city farm.

March 20, 1919	6.00	0.01	0.03	0.00	0.00	55.00	Negative
May 28, 1919	5.00	0.01	0.02	0.01	0.20	50.00	Negative
October 1, 1919	5.00	0.02	0.02	0.00	0.30	31.00	Negative
December 13, 1919	4.00	0.01	0.03	0.00	0.00	32.00	Negative

RESULTS IN PARTS PER MILLION (Continued).

Sample Drawn.	Chlorine.	Free Ammonia.	Albuminoid Am- monia.	Nitrogen as Ni- trates.	Nitrogen as Ni- trates.	Total Solids.	Bacterial Analy- sis.
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Water Supply of Spartanburg, S. C.

Spartanburg Water Works. Owned by city. Superintendent, M. M. Boyd. In charge of collection of samples, J. O. Erwin, Jr. Chairman local Board of Health, Dr. J. W. Allen.
Source: Chinquepin Creek and Sholly Creek, $\frac{1}{2}$ mile from city. Capacity, 5,000,000 gallons per day; filtered by mechanical filters. Treatment, 0.6 grain Alum per gallon. Average consumption 1,250,000 gallons per day. Consumption per capita, 60 gallons per day. Service, 65 per cent. of buildings, using city water supply.
Sewerage system: 55 per cent. of buildings connected with sewer and have water closets. Sewage empties into Lawson's Fork Creek and Fair Forest Creek, $\frac{1}{4}$ mile from city limits. Garbage disposal plant, garbage burned. Garbage dumped on outskirts of city.

March 28, 1919	5.00	0.02	0.02	0.00	0.20	60.00	Negative
May 22, 1919	4.00	0.03	0.03	0.00	0.30	72.00	Negative
October 16, 1919	6.00	0.02	0.02	0.00	0.20	22.00	Negative
December 13, 1919	5.00	0.02	0.04	0.00	0.10	62.00	Negative

Water Supply of Sumter, S. C.

City Water Works. Owned by city. Superintendent, W. W. McKagan. In charge of collection of samples, W. W. McKagan. Chairman of local Board of Health, J. M. McKeiver.
Source: 15 wells, 6 inches in diameter, 50 to 430 feet deep, pumped; pumps in pit 9 feet below surface; 1 mile from city. Capacity, 1,800,000 gallons per day; not filtered. Capacity of plant, electric, 720,000 gallons per day. Consumption per capita, 35 gallons per day. Service 75 per cent. metered; 75 per cent. of buildings connected with sewer and have water closets. Sewerage empties into Turkey Creek and Green Swamp. Septic tanks. No garbage disposal plant. Garbage dumped in lot outside city limits.

March 11, 1919	9.00	0.01	0.03	0.00	0.30	114.00	Negative
May 28, 1919	11.00	0.04	0.03	0.00	0.60	67.00	Negative
September 24, 1919	10.00	0.04	0.03	0.00	0.00	60.00	Negative
December 17, 1919	12.00	0.02	0.03	0.00	0.60	60.00	Negative

Water Supply of Timmonsville, S. C.

Board of Public Works, Superintendent, B. Carter. In charge of collection of samples, B. Carter. Chairman local Board of Health, J. E. Patterson.
 Source: Well 8 inches in diameter, 526 feet deep, on outer edge of town. Capacity, 300,000 gallons per day. Average consumption, 20,000 gallons per day. Consumption per capita, 20 gallons per day. Service metered, 80 per cent. of buildings using city water supply.
 Sewerage system: 60 per cent. of buildings connected with sewer and have water closets. Septic tank. Sewage empties into Sparrow Swamp. No garbage disposal plant. Garbage burnt and dumped into swamp.

March 24, 1919	6.00	0.02	0.03	0.00	0.00	141.00	Negative
May 20, 1919	5.00	0.01	0.05	0.001	0.00	98.00	Negative
October 27, 1919	7.00	0.01	0.02	0.00	0.00	74.00	Negative

Water Supply of Union, S. C.

Municipal Electric Light & Water Works, Superintendent, R. A. Easterling. Chairman local Board of Health, S. G. Sarratt.
 In charge of collection of samples, R. A. Easterling.
 Source: Creek 2 miles from city. Capacity, 15,000,000 gallons per day. Filtered by mechanical filter. Treatment, Alum. Capacity of plant, 500,000 gallons per day. Average consumption, 400,000 gallons per day. Consumption per capita, 35 gallons per day. Service metered, 80 per cent. of buildings using city water supply.
 Sewerage system: 75 per cent. of city sewerred and have water closets. Sewage empties into Buffalo Creek. No garbage disposal plant. Garbage dumped outside city limits.

March 22, 1919	7.00	0.03	0.05	0.00	0.10	60.00	Negative
May 28, 1919	7.00	0.01	0.02	0.00	0.20	74.00	Negative
September 18, 1919	8.00	0.05	0.06	0.00	0.00	84.00	Negative
December 8, 1919	7.00	0.01	0.01	0.003	0.10	40.00	Negative

Water Supply of Winnsboro, S. C.

Board of Public Works, Owned by town. Superintendent, T. R. Ellison. In charge of collection of samples, T. R. Ellison.
 Chairman local Board of Health, Dr. J. E. Douglas.
 Source: Creek 2 miles from city; filtered. Capacity, 1,000,000 gallons per day. Treatment, Alum. Average consumption 75,000 gallons per day. Consumption per capita, 40 gallons per day. Service not metered; 80 per cent. of buildings using city water supply.
 Sewerage system: 85 per cent. of city sewerred; 75 per cent. of buildings connected with sewer. Sewage empties into Cathcart's Branch, $\frac{3}{4}$ mile from city. Septic tank. No garbage disposal plant. Garbage dumped in low waste places.

April 2, 1919	6.00	0.01	0.01	0.00	0.00	66.00	Negative
May 21, 1919	7.00	0.01	0.03	0.00	0.20	83.00	Negative
September 25, 1919	8.00	0.02	0.03	0.00	0.30	68.00	Negative

RESULTS IN PARTS PER MILLION (Continued).

Sample Drawn.	Chlorine.	Free Ammonia.	Albuminoid Am- monia.	Nitrogen as Ni- trates.	Nitrogen as Ni- trates.	Total Solids.	Bacterial Analy- sis.
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Water Supply of Woodruff, S. C.

Board of Public Works. Owned by town. Superintendent, T. W. Cox. In charge of collection of samples, T. W. Cox. Chair-
man local Board of Health, T. W. Cox.
Source: Well $\frac{1}{2}$ mile from city, depth 400 feet. Capacity, 105,000 gallons per day. Capacity of plant, 200,000 gallons per
day. Average consumption 105,000 gallons per day. Service metered, 40 per cent. buildings connected with city water supply.
Sewerage system: 75 per cent. of city sewered; 40 per cent. of buildings connected with sewer and have closets. Two septic
tanks. Sewage empties into Branch and Creek. No garbage disposal plant. Garbage dumped in tank.

March 22, 1919	6.00	0.01	0.01	0.00	0.00	242.00	Negative
June 23, 1919	7.00	0.01	0.01	0.00	0.00	244.00	Negative
October 2, 1919	6.00	0.02	0.01	0.00	0.10	251.00	Negative
January 6, 1920	7.00	0.03	0.03	0.00	0.10	231.00	Negative

Water Supply of York, S. C.

Yorkville Water Plant. Owned by city. Superintendent J. O. Wray. In charge of collection of samples, J. O. Wray. Chair-
man local Board of Health, Dr. M. T. Walker.
Source: Branch, $\frac{3}{4}$ mile from city. Capacity, 800,000 gallons per day; filtered by mechanical filter. Treatment, $\frac{1}{2}$ grain
Alum per gallon. Capacity of plant, 500,000 gallons per day. Average consumption, 200,000 gallons per day. Consump-
tion per capita, 35 gallons per day. Service metered, 70 per cent. of buildings connected with city water supply.
Sewerage system: 50 per cent. of buildings connected with sewerage and have water closets. Sewage empties into Fishing
Creek on east and Turkey Creek on west. No garbage disposal plant. Garbage dumped on wornout land outside city
limits.

March 24, 1919	6.00	0.01	0.03	0.00	0.20	81.00	Negative
May 3, 1919	4.00	0.01	0.02	0.00	0.20	62.00	Negative

Water Supply of Bamberg, S. C.

Light & Water Department of Commission of Public Works. Owned by city. Superintendent, A. L. Edwins. In charge of collection of samples, A. L. Edwins. Chairman Board of Health, Dr. J. J. Cleckby.
 Source: Flowing well, artesian, in city; diameter, 3 inches; depth 480 feet. Capacity of plant, 70,000 gallons per day; average consumption, 60,000 gallons per day. Service metered, 40 per cent. buildings using city water supply; 60 per cent. have septic tanks.

Sewerage system: City is not sewerred, except private tanks. No garbage disposal plant. Garbage disposed of in dump wagon.

April 4, 1919	5.00	0.01	0.03	0.00	0.00	76.00	Negative
May 28, 1919	4.00	0.01	0.01	0.00	0.00	73.00	Negative
October 26, 1919	3.00	0.02	0.01	0.00	0.00	54.00	Negative
December 19, 1919	6.00	0.01	0.02	0.00	0.00	59.00	Negative

FINANCIAL STATEMENT

The following is a correct statement of the expenditures of the State Board of Health for the fiscal year 1919, showing to whom paid and for what purpose. All claims against the Board are itemized and rendered in duplicate, the original being attached to warrant of Comptroller General and forwarded to his office for payment—the duplicate being filed in this office.

		Voucher No.	CONTINGENT.	
1919.				
Mch.	4.	1.	To Elizabeth Ayer, salary	\$150 00
Mch.	4.	2.	To M. C. Davis, salary	120 00
Mch.	4.	3.	To J. R. Cain, incidental expenses, laboratory	77 51
Mch.	4.	4.	To Southern Bell Tel. & Tel. Co., official phone and toll service..	8 55
Mch.	7.	5.	To Western Union Telegraph Co., official telegrams	59 21
Mch.	7.	6.	To Columbia Ry., Gas & Electric Co., gas	39 92
Mch.	7.	7.	To Palmetto Ice Co., ice tickets, lab.	9 00
Mch.	7.	8.	To J. T. McCaw, vouchers and placards	22 15
Mch.	7.	9.	To Nat. Vac. & Antitoxin Inst., diphtheria antitoxin for Jan. & Feb.	858 95
Mch.	12.	10.	To John Ridout, Aiken, S. C., for guinea pigs	18 00
Mch.	12.	11.	To Columbia Paper Company, wrapping paper	9 32
Mch.	17.	12.	To James A. Hayne, M. D., incidental expenses	58 85
Mch.	17.	13.	To E. W. Seibels & Son, rent Jan. and Feb.	120 00
Mch.	18.	14.	To Selig Co., liquid soap, lab.	17 50
Mch.	18.	15.	To Arthur Thomas Co., laboratory supplies	288 31
Mch.	18.	16.	To Frank S. Betz Co., laboratory supplies	14 09
Mch.	19.	17.	To Lutheran Board of Publication, 2,000 envelopes	8 00
Mch.	19.	18.	To H. K. Mulford Co., 12 packages meningitis serum	43 20
Mch.	19.	19.	To State Company, 2,000 envelopes	8 65
Mch.	22.	20.	To Gulf & Atlantic Ins. Co., ann. prem. on bond, Jas. A. Hayne, M. D.	7 00
Mch.	22.	21.	To Lorick & Lowrance, one hatchet	1 25
Mch.	22.	22.	To Crown Surgical Co., surgical instruments	119 65
Mch.	24.	23.	To Postmaster, stamps	45 00
Mch.	24.	24.	To The State Co., stamped envelopes, 2,000 3s	67 64
Mch.	27.	25.	To Elizabeth Ayer, salary	75 00
Mch.	27.	26.	To M. C. Davis, salary	60 00
Mch.	28.	27.	To James Bailey, painting and calssomining 4 rooms lab.	135 00
Mch.	31.	28.	To E. W. Grieshaber, salary	100 00
Mch.	31.	29.	To Brooker-Shipp Paper Co., drinking cups	14 40
Apr.	1.	30.	To Columbia Railway, Gas & Electric Co., gas	25 34
Apr.	1.	31.	To M. A. Floyd, M. D., services rendered in suppression of smallpox	20 00
Apr.	3.	32.	To Western Union Telegraph Co., official messages	30 87
Apr.	4.	33.	To Columbia Ice Co., ice tickets, lab.	9 00
Apr.	4.	34.	To Parke, Davis Co., amboceptor, lab.	15 00
Apr.	4.	35.	To Incidental expenses lab. J. R. Cain	72 46
Apr.	5.	36.	To Lorick & Lowrance, nails, turpentine, etc.	4 58
Apr.	5.	37.	To Elmer & Amend, laboratory supplies	24 85
Apr.	5.	38.	To H. K. Mulford Co., meningitis serum	43 30
Apr.	7.	39.	To Southern Tel. and Tel. Co., phone and toll service.....	17 30
Apr.	9.	40.	To J. T. McCaw, warrant books and fountain pens	131 75
Apr.	11.	41.	To Walker, Ravenel & Co., policy on Dodge car State Bd. of Health, venereal disease control	33 00
Apr.	17.	42.	To H. K. Mulford, 12 pkgs. meningitis serum	43 35
Apr.	17.	43.	To John Ridout, Aiken, 8 guinea pigs	6 00
Apr.	18.	44.	To Nat. Vac. & Antitox. Inst., smallpox vaccine and tetanus antitoxin	801 76
Apr.	18.	45.	To E. W. Seibels & Sons, rent	40 00
Apr.	19.	46.	To Nat. Vac. & Antitoxin Inst., diphtheria antitoxin for March ...	521 59
Apr.	22.	47.	To C. O. Brown & Bro., glass, putty, etc.	12 20
Apr.	28.	48.	To E. Michaels, 33 guinea pigs	45 00
Apr.	30.	49.	To Elizabeth Ayer, salary	75 00
Apr.	30.	50.	To M. C. Davis, salary	60 00
Apr.	30.	51.	To E. L. Filby, sanitary engineer, salary	150 00
Apr.	30.	52.	To E. L. Filby, traveling expenses	42 63
Apr.	30.	53.	To E. W. Grieshaber, salary	100 00
Apr.	30.	54.	To Palmetto Ice Co., ice tickets, lab.	2 00

Voucher No.		CONTINGENT—(Cont.)	
1919.			
May	3. 55.	To Underwood Typewriter Co., 1 coupon book	5 00
May	3. 56.	To American Medical Assn., 29 copies Journal	6 55
May	3. 57.	To A. D. Gregg, M. D., services rendered in suppression of smallpox	25 00
May	3. 58.	To Western Union Telegraph Co., official messages	27 66
May	3. 59.	To Columbia Railway, Gas and Electric Co., gas consumed lab.	27 84
May	3. 60.	To E. W. Seibels & Son, rent	100 00
May	3. 61.	To R. L. Bryan Co., 20,000 specimen blood blanks	25 80
May	5. 62.	To J. R. Cain, incidental expenses, lab.	46 68
May	8. 63.	To Lorick Bros, asbestos board and galvanized iron	7 68
May	8. 64.	To Southern Bell Tel. & Tel. Co., phone and toll service	24 00
May	15. 65.	To Nat. Vac. & Antitoxin Inst., diphtheria antitoxin for April	388 00
May	15. 66.	To James A. Hayne, M. D., incidental expenses	60 63
May	15. 67.	To State Company, stamped envelopes for lab.	37 63
May	29. 68.	To M. C. Davis, salary	60 00
May	29. 69.	To Elizabeth Ayer, salary	75 00
May	29. 70.	To E. L. Filby, salary	150 00
May	30. 71.	To E. L. Filby, traveling expenses	38 67
May	30. 72.	To E. W. Grieshaber, salary	100 00
May	30. 73.	To J. T. McCaw, 20,000 test index cards	37 00
May	30. 74.	To Postmaster, stamps	25 00
June	4. 75.	To Southern Bell Tel. & Tel. Co., phone and toll service	21 60
June	4. 76.	To Palmetto Ice Co., ice tickets, lab.	18 00
June	4. 77.	To E. W. Seibels & Son, rent	52 00
June	4. 78.	To Murray Drug Co., 2 gals. alcohol, lab.	13 00
June	4. 79.	To Columbia Railway, Gas & Electric Co., gas consumed	20 34
June	4. 80.	To Postmaster, stamps	40 00
June	5. 81.	To Columbia Lum. & Mfg. Co., lumber for laboratory	46 12
June	5. 82.	To James R. Cain, incidental expenses May	61 41
June	10. 83.	To State Co., printing 2,000 stamped envelopes, lab.	50 00
June	10. 84.	To American Medical Assn., 14 copies Journal 1914	4 90
June	10. 85.	To The Morgan Co., 70 gross ampoules	115 50
June	10. 86.	To Arthur H. Thomas Co., china marking pencils	2 85
June	13. 87.	To J. T. McCaw, Wassermann reports, widal test forms	116 64
June	19. 88.	To Murray Drug Co., absolut alcohol	3 50
June	19. 89.	To Western Union Telegraph Co., official messages May	8 69
June	23. 90.	To E. L. Filby, sanitary engineer, salary	150 00
June	26. 91.	To E. L. Filby, traveling expenses	45 86
June	26. 92.	To Margaret Davis, salary	60 00
June	26. 93.	To Elizabeth Ayer, salary	75 00
June	26. 94.	To H. J. Bassler Co., installing sink at laboratory	47 00
June	26. 95.	To Frank S. Betz Co., 20 glass syringes, 4 dozen needles laboratory....	19 13
June	26. 96.	To E. W. Grieshaber, salary	100 00
June	30. 97.	To Underwood Typewriter Co., work on machine	3 10
July	3. 98.	To Premium on bond No. 759, acting State Health Officer	5 00
July	3. 99.	To Southern States Supply Co., supplies laboratory	38 91
July	3. 100.	To J. R. Cain, incidental expenses laboratory	50 18
July	3. 101.	To Nat. Vac. & Antitoxin Inst., diphtheria antitoxin, May	347 25
July	3. 102.	To Columbia Ry., Gas & Elec. Co., gas consumed at laboratory, June	14 21
July	8. 103.	To Southern Bell Tel. Co., phone service, 3032 and 2942	23 95
July	8. 104.	To Nat. Vac. & Antitoxin Inst., diphtheria antitoxin, June	115 25
July	8. 105.	To Jas. A. Hayne, M. D., incidental expenses May and June	48 50
July	12. 106.	To Columbia Paper Co., paper and cord	4 91
July	12. 107.	To Nat. Vac. & Antitoxin Inst., vaccine virus quarter ending June 30	406 12
		Typhoid bacterin delivered during quarter ending June 30	1,000 00
		Tetanus antitoxin issued during quarter ending June 30	122 40
July	14. 108.	To E. Michaels, 25 guinea pigs	25 00
July	14. 109.	To E. L. Filby, traveling expenses	40 16
July	14. 110.	To The Gilliland Laboratories, 150 ampoules typhoid bacterin	10 50
July	15. 111.	To Postmaster, stamps, laboratory	40 00
July	15. 112.	To Western Union Telegraph Co., official messages	22 49
July	23. 113.	To E. W. Seibels & Son, rent for offices	52 00
July	23. 114.	To The Trade Bindery, binding ten volumes A. M. A., for laboratory	40 00
July	23. 115.	To E. L. Filby, salary	150 00
July	23. 116.	To G. E. Neal, M. D., trav. exp., trip Caesar's Head to invest. ty. fever	6 67
July	24. 117.	To M. C. Davis, salary	60 00
July	24. 118.	To E. W. Ayer, salary	75 00
July	24. 119.	To T. B. Hayne, invest. mala. cond., Blenheim July 18 to 21, inc.	28 00
July	28. 120.	To H. M. Smith, M. D., 18 days' service laboratory	60 00
July	28. 121.	To E. L. Filby, traveling expenses	34 18
July	28. 122.	To J. D. Eaddy, M. D., investigating smallpox, Cades, and inocu- lating against typhoid at Pinopolis	33 00
July	31. 123.	To Arthur H. Thomas test tubes	13 76
July	31. 124.	To Southern Bell Tel. & Tel. Co., phone service 3032 and 2942	26 90
July	31. 125.	To Dr. F. A. Coward, incidental expenses, July, lab.	43 17
Aug.	2. 126.	To Western Union Telegraph Co., official messages, July	30 76
Aug.	15. 127.	To Elmer & Amend, New York, turbidity scale	8 84
Aug.	15. 128.	To E. Michaels, Philadelphia, 36 guinea pigs	34 20

Voucher No.		CONTINGENT—(Cont.)	
1919.			
Aug.	16. 129.	To Scientific Materials Co., Pittsburg, bleeding needles	570 24
Aug.	19. 130.	To Daggett Printing Co., Charleston, 300 bill heads	4 50
Aug.	26. 131.	To Postmaster, stamps, laboratory	40 00
Aug.	27. 132.	To E. L. Filby, expense account July 29-August 27	97 05
Aug.	28. 133.	To Margaret C. Davis, laboratory, salary, August	60 00
Aug.	29. 134.	To Dr. H. M. Smith, laboratory, salary, August	150 00
Aug.	29. 135.	To E. L. Filby, sanitary engineering salary August	150 00
Sept.	2. 136.	To Nellie C. Cunningham, salary August	100 00
Sept.	3. 137.	To E. W. Seibels & Sons, August rent 510, 511, 512	52 00
Sept.	3. 138.	To Underwood Typewriter Co., rent of machine one month	5 00
Sept.	3. 139.	To Lorick Bros., water cooler	3 50
Sept.	3. 140.	To Lorick & Lowrance, hardware, etc., laboratory	18 65
Sept.	3. 141.	To Arthur H. Thomas Co., Philadelphia, cover glasses, lab.	8 15
Sept.	4. 142.	To State Company, 2,000 2c stamped, ptg. envelopes, lab.	52 50
Sept.	5. 143.	To Nat. Vac. & Antitoxin Inst., diphtheria antitoxin distributed in July ..	466 50
Sept.	8. 144.	To Southern Bell Tel. Co., phone and toll services, lab.	5 80
Sept.	9. 145.	To Dr. F. A. Coward, lab. incidental expenses August	49 02
Sept.	9. 146.	To Parke, Davis & Co., 5 bixes ampoules anti-sheep amboceptor ..	9 00
Sept.	9. 147.	To B. C. Electro Co., repairing machine, laboratory	3 89
Sept.	9. 148.	To Western Union Telegraph Co., official messages August	13 66
Sept.	10. 149.	To Dr. Jas. A. Hayne, incidental expenses, July and August	58 90
Sept.	11. 150.	To Southern Bell Telephone Co., phone and toll service 3032	19 25
Sept.	13. 151.	To Palmetto National Bank, rent safety deposit box	8 00
Sept.	22. 152.	To E. W. Seibels & Sons, rent 510, 511, 512, September	52 00
Sept.	24. 153.	To Dr. H. M. Smith, salary September	150 00
Sept.	24. 154.	To Margaret C. Davis, stenographer, salary September	60 00
Sept.	27. 155.	To Nellie C. Cunningham, salary September	100 00
Sept.	27. 156.	To E. L. Filby, salary September	100 00
Oct.	2. 157.	To James A. Hayne, M. D., incidental expenses September	30 45
Oct.	2. 158.	To F. A. Coward, M. D., incidental expenses September	36 00
Oct.	2. 159.	To Sylvan Bros., repairing clock, laboratory	2 00
Oct.	2. 160.	To Arthur H. Thomas, Philadelphia, 1,000 test tubes	10 35
Oct.	7. 161.	To E. L. Filby, expense account August 28 to September 9	10 53
Oct.	8. 162.	To E. W. Seibels & Son, rent 510, 511 and 512	70 00
Oct.	9. 163.	To Southern Bell Tel. Co., phone and toll service, for 3032 and 2942 ..	43 45
Oct.	9. 164.	To Underwood Typewriter Co., 1 typewriter cover, lab.	1 00
Oct.	9. 165.	To Cola. Ry., Gas and Elec. Co., gas cons. July, Aug. Sept., lab.	48 28
Oct.	10. 166.	To Shannon-Childs Electric Co., repairing refrigerator and supp. lab. ..	93 15
Oct.	13. 167.	To Central Drug Co., medical supplies laboratory	81 95
Oct.	13. 168.	To Arthur H. Thomas Co., test tubes, laboratory	2 48
Oct.	13. 169.	To Underwood Typewriter Co., rent of machine	2 50
Oct.	16. 170.	To Western Union Telegraph Co., official messages September	17 45
Oct.	16. 171.	To Murray Drug Co., 500 tongue depressors	1 25
Oct.	16. 172.	To National Vaccine & Antitoxin Institute, Washington, D. C., diph- theria antitoxin, Aug. and tetanus antitoxin for July and Aug.	1,877 90
Oct.	16. 173.	To Sinking Fund Commission, premium on No. 637	8 30
Oct.	20. 174.	To Nat. Vac. & Antitox. Ins., typ. bact. quart. ending Sept. 30.	1,120 00
Oct.	20. 175.	To Gilliland Laboratories, typhoid bacterin	1,411 42
Oct.	30. 176.	To Margaret C. Davis, salary October	60 00
Oct.	30. 177.	To Dr. H. M. Smith, salary October	150 00
Oct.	30. 178.	To O. H. Wilson, 24 guinea pigs. laboratory	27 60
Oct.	31. 179.	To Nellie C. Cunningham, salary October	100 00
Nov.	3. 180.	To E. L. Filby, salary October	150 00
Nov.	3. 181.	To Columbia Ry., Gas & Elec. Co., gas laboratory October	20 45
Nov.	3. 182.	To E. L. Filby, sanitary engineer, trav. expenses, Oct. 23-Nov. 1.	100 13
Nov.	7. 183.	To Southern Bell Tel. Co., service 3032 and 2942	20 70
Nov.	8. 184.	To Dr. T. A. Quattlebaum, exp. & serv. invets. trachoma, Newberry Co.	28 05
Nov.	8. 185.	To Dr. F. A. Coward, incidental expenses lab. October	36 35
Nov.	11. 186.	To Western Union Telegraph Co., official messages	22 40
Nov.	11. 187.	To The State Company, 20,000 specimen blanks	20 00
Nov.	11. 188.	To Columbia Paper Co., 1 roll paper, 6 balls twine	4 88
Nov.	11. 189.	To Dr. B. D. Caughman, exp. & serv. invets. trachoma, Newberry Co.	35 00
Nov.	13. 190.	To Dr. J. L. Goodwin, auto hire, investigating trachoma	1 25
Nov.	14. 191.	To Postmaster, stamps for laboratory	40 00
Nov.	18. 192.	To Joint Committee on Printing, supplies laboratory	33 53
Nov.	21. 193.	To Dr. James A. Hayne, incidental expenses October	34 25
Nov.	28. 194.	To Dr. H. M. Smith, salary November	150 00
Nov.	28. 195.	To Margaret C. Davis, salary November	60 00
Nov.	28. 196.	To H. K. Mulford, 12 packages anti-meningitis serum	43 40
Nov.	28. 197.	To Lorick & Lowrance, supplies laboratory	19 20
Nov.	28. 198.	To Miot's Pharmacy, drugs, drinking cups	9 60
Nov.	29. 199.	To Nellie C. Cunningham, salary November	100 00
Dec.	1. 200.	To E. L. Filby, salary November	150 00
Dec.	2. 201.	To Southern Bell Tel. Co., service 3032 and 2942	31 85
Dec.	2. 202.	To Cola. Ry. Gas and Elec. Co. gas cons. Nov. and burner cock, lab.	23 95
Dec.	3. 203.	To Jas. A. Hayne, incidental expenses November	32 80

1919.		Voucher No.	CONTINGENT—(Cont.)	
Dec.	5.	204.	To F. A. Coward, incidental November	45 85
Dec.	5.	205.	To E. W. Seibels & Sons, rent, November and December	100 00
Dec.	9.	206.	To Western Union Telegraph Co., official messages	43 71
Dec.	15.	207.	To Joint Committee on printing, office supplies	77 19
Dec.	16.	208.	To J. Nelson Frierson, on chartering white shield	6 75
Dec.	20.	209.	To Dr. H. M. Smith, salary December	150 00
Dec.	20.	210.	To Margaret Davis, salary December	60 00
Dec.	20.	211.	To Mrs. J. E. Auld, 6 guinea pigs at 75c each	4 50
Dec.	20.	212.	To E. L. Filby, traveling expenses November	31 57
Dec.	20.	213.	To James A. Hayne, traveling expenses, November 14-19	82 16
Dec.	20.	214.	To N. C. Cunningham, salary December	100 00
Dec.	22.	215.	To John Rountree, drayage and overdue postage	8 92
Dec.	22.	216.	To C. O. Brown, glass, etc.	19 95
Dec.	31.	217.	To Dr. F. A. Coward, extra help at Laboratory, December	86 00

1920.		Voucher No.	Following Bills Contracted in 1919.	
Jan.	3.	218.	To Columbia Ry., Gas & Electric Co., gas consumed at lab. dur. Dec.	26 50
Jan.	3.	219.	To Dr. James A. Hayne, incidental expenses December	36 85
Jan.	3.	220.	To Murray Drug Company, three gallons creolin and cans	10 80
Jan.	3.	221.	To Blue Taxi Serv., trans. to Newberry and return, inves. trachoma with Dr. McMullen	25 00
Jan.	6.	222.	To Columbia Blue Print Co., six blue prints	2 16
Jan.	8.	223.	To Parke, Davis & Co. Detroit, Mich., 3 bulbs 1-cc antisheep ambocep.	5 40
Jan.	8.	224.	To Southern Bell Telephone Co., toll service 3032 and 2942 for Dec.	19 45
Jan.	20.	225.	To Dr. B. D. Caughman, payment on expenses of trip to Newberry investigating trachoma, November 11	15 65
Appropriation				\$20,000 00
Expenditures				\$19,995 93
Balance				\$4 07

1919.		Voucher No.	EXPENSES STATE BOARD OF HEALTH.	
Mch.	13.	1.	To Lea & Febiger, reference books	5 25
Mch.	13.	2.	To Southern Medical Assn., current dues	3 00
Mch.	13.	3.	To American Medical Assn., subscription to Journal	7 00
			Medical Books	6 00
			Medical Directory	21 00
Mch.	20.	4.	To Robert Wilson, Jr., expenses special meet. exec. com.	38 00
Mch.	20.	5.	To Wm. Egleston, M. D., expenses special meet. exec. com.	29 40
Mch.	20.	6.	To E. A. Hines, M. D., expenses ex. com. meeting	65 60
Mch.	20.	7.	To D. B. Frontis, M. D., expenses special meet. exec. com.	16 00
Mch.	20.	8.	To W. M. Lester, M. D., attendance special meet. exec. com.	4 00
Mch.	20.	9.	To W. W. Dodson, M. D., expenses special meet. exec. com.	40 60
Mch.	20.	10.	To Southeastern Sanitary Association, dues	2 00
Apr.	17.	11.	To R. A. Marsh, M. D., expenses annual meet. exec. com.	42 40
Apr.	17.	12.	To C. C. Gambrell, M. D., expenses annual meet. exec. com.	49 80
Apr.	17.	13.	To W. W. Dodson, M. D., expenses annual meet. exec. com.	57 40
Apr.	17.	14.	To Wm. Egleston, M. D., expenses annual meet. exec. com.	17 00
Apr.	17.	15.	To W. M. Lester, M. D., expenses annual meet. exec. com.	28 40
Apr.	19.	16.	To Gittman's Book Shop, Bacteriology, Infection and Resistance, Infection, Immunity, etc.	15 00
Apr.	19.	17.	To E. A. Hines, M. D., expenses annual meet. exec. com.	67 00
Apr.	24.	18.	To C. C. Gambrell, M. D., expenses special meet. exec. com.	33 40
Apr.	24.	19.	To W. W. Dodson, M. D., expenses special meet. exec. com.	40 60
Apr.	24.	20.	To W. M. Lester, M. D., attendance special meet. exec. com.	4 00
Apr.	24.	21.	To Wm. Egleston, M. D., expenses special meet. exec. com.	33 40
Apr.	24.	22.	To Robert Wilson, Jr., expenses special meet. exec. com.	38 00
Apr.	24.	23.	To R. A. Marsh, M. D., expenses special meet. exec. com.	24 20
Apr.	24.	24.	To W. M. Lester, M. D., attendance special meet. exec. com.	4 00
Apr.	30.	25.	To Gittman's Book Shop, four medical books	17 50
Apr.	30.	26.	To W. B. Saunders, one Cabot diagnosis, two volumes	12 00
May	6.	27.	To Conference State & Provincial Health Authorities assess. dues	10 00
May	14.	28.	To W. B. Saunders Co., 1 Winslow Prev. Dis.	1 75
May	19.	29.	To M. C. U. S. Army, dues and copies journal, May, 1919 to May 1920 ..	5 00
May	24.	30.	To W. B. Saunders Co., 1 year's sub. Medical Clinics of No. Amer.	14 00
May	27.	31.	To Wm. Egleston, M. D., expenses special meeting exec. com.	29 40
May	27.	32.	To Robert Wilson, Jr., expenses special meet. exec. com.	34 00
May	27.	33.	To C. C. Gambrell, M. D., expenses special meet. exec. com.	33 40
May	27.	34.	To W. M. Lester, M. D., attendance special meet. exec. com.	4 00
July	8.	35.	To John Wiley & Sons, five medical books	14 25
July	8.	36.	To W. B. Saunders Co., 1 Overton & Denno	4 50
July	10.	37.	To W. W. Dodson, M. D., expenses quarterly meeting, exec. com.	40 60

Voucher No.		EXPENSES STATE BOARD OF HEALTH.—(Cont.)	
1919.			
July	10. 38.	To C. C. Gambrell, M. D., expenses quarterly meet. exec. com.	33 40
July	10. 39.	To R. A. Marsh, M. D., expenses quarterly meet. exec. com.	21 00
July	10. 40.	To Wm. Egleston, M. D., ex. quart. meet. ex. com. & trip, Blenheim, malaria investigation	44 40
July	10. 41.	To W. M. Lester, M. D., attendance quarterly meet. exec. com. ..	4 00
July	10. 42.	To Robert Wilson, Jr., expenses quarterly meet. exec. com.	34 00
July	14. 43.	To Wm. H. Baldwin, treas., dues, Nat. T. B. Assn.	5 00
July	23. 44.	To Engineering News Record, one year's subscription	5 00
July	23. 45.	To American Public Health Asson, 1 year's subscription	5 00
July	23. 46.	To The American City, 1 year's subscription	3 00
Aug.	15. 47.	To McGraw-Hill Book Co., Inc., 3 vol. M. & E. sewerage practice...	15 00
Aug.	16. 48.	To G. P. Putnam's Sons, 1 phrase book	1 90
Aug.	30. 49.	To W. E. Houston, budget work, salary August	100 00
Sept.	12. 50.	To Dr. Robert Wilson, Jr., expenses special meet. exec. com.	38 00
Sept.	12. 51.	To Dr. C. C. Gambrell, expenses special meet. exec. com.	33 40
Sept.	12. 52.	To Dr. Wm. Egleston, expenses special meet. exec. com.	33 40
Sept.	12. 53.	To Dr. E. A. Hines, expenses special meet. exec. com.	42 60
Sept.	12. 54.	To Dr. R. A. Marsh, expenses special meet. exec. com.	25 00
Sept.	12. 55.	To Dr. W. W. Dodson, expenses special meet. exec. com.	40 60
Sept.	12. 56.	To Dr. W. M. Lester, attendance special meet. exec. com.	4 00
Sept.	17. 57.	To Dr. W. M. Lester, services rendered on budget commission	4 00
Sept.	18. 58.	To New York Times, 1 ten volume cloth set No. 1884	33 00
Sept.	29. 59.	To W. E. Houston, budget clerk, salary September	100 00
Oct.	1. 60.	To W. B. Saunders Co., 1 yr's. sub. Med. Clinics of No. Amer., V. No.3	14 00
Oct.	4. 61.	To W. E. Houston, budget clerk, 3 days' service	12 50
Oct.	22. 62.	To Dr. Wm. Egleston, expenses quarterly meet. exec. com.	33 40
Oct.	22. 63.	To Dr. W. W. Dodson, expenses quarterly meet. exec. com.	40 60
Oct.	22. 64.	To Dr. C. C. Gambrell, expenses quarterly meet. exec. com.	33 40
Oct.	22. 65.	To Dr. Robert Wilson, Jr., expenses quarterly meet. exec. com.	38 00
Oct.	22. 66.	To Dr. R. A. Marsh, exp. quar. meet. ex. com. and insp. State colleges	76 80
Oct.	22. 67.	To Dr. E. A. Hines, ex. quar. meet. ex. com. and insp. State colleges	89 30
Oct.	22. 68.	To Dr. W. M. Lester, attend. quar. meet. exec. com. and inspecting State penal and charitable institutions.....	13 80
Oct.	31. 69.	To Southern Medical Assn., current dues	3 00
Oct.	31. 70.	To Medical Inspection & Health Conservation, current dues	2 00
Nov.	7. 71.	To Little, Brown & Co., 1 gross Crim Psychology	5 00
Dec.	30. 72.	To Dr. R. A. Marsh, exp. and serv. rendered in inspecting State Industrial School, Orangeburg, S. C.	36 00
Dec.	30. 73.	To Dr. Wm. Egleston, exp. and serv. rendered in inspecting State Industrial School, Florence, S. C.	13 00
Dec.	30. 74.	To Gittman's Book Shop, Dorland's Dictionary & Howell's Physiology	10 50
Voucher No.		Bills Contracted in 1919.	
1920.			
Jan.	8, 1920.	To Western Union Telegraph Company, official messages in December.	33 80
Jan.	20, 1920.	To Dr. B. D. Caughman, pymt. on exp. inves. trachoma in N'berry Co.	19 35
			\$2,000 00
Appropriation			\$2,000 00
Expenditures			\$2,000 00

Voucher No.		BUREAU VITAL STATISTICS.	
1919.			
Mch.	5. 1.	To C. W. Miller, salary, January and February	\$300 00
Mch.	5. 2.	To P. T. Washington, salary Jan. and Feb.	150 00
Mch.	5. 3.	To Margaret Lindsay, salary Jan. and Feb.	120 00
Mch.	5. 4.	To Mary Currell, salary Jan. and Feb.	120 00
Mch.	7. 5.	To Southern Bell Tel. and Tel. Co.	11 50
Mch.	17. 6.	To Postmaster, stamps	50 00
Mch.	18. 7.	To The Letter Shop, 100 multigraph letters	1 00
Mch.	27. 8.	To C. W. Miller, salary March	166 66
Mch.	27. 9.	To P. T. Washington, salary March	75 00
Mch.	27. 10.	To Margaret Lindsay, salary March	60 00
Mch.	27. 11.	To Mary Currell, salary March	60 00
Apr.	1. 12.	To C. W. Miller, overdue postage	6 51
Apr.	4. 13.	To Southern Bell Tel. & Tel. Co., phone services March	4 90
Apr.	8. 14.	To J. T. McCaw, birth certificates, index cards, etc.	279 90
Apr.	18. 15.	To J. T. McCaw, 10 volumes births and deaths, & 15,500 large envel.	158 50
Apr.	30. 16.	To C. W. Miller, salary April	166 66
Apr.	30. 17.	To Margaret Lindsay, salary April	60 00
Apr.	30. 18.	To Mary Currell, salary April	60 00
Apr.	30. 19.	To P. T. Washington, salary April	75 00

Voucher		BUREAU OF VITAL STATISTICS—(Cont.)		
	No.			
1919.				
May	1. 20.	To C. W. Miller, overdue post. exp. trip to Allendale & Walterboro	19 07	
May	4. 21.	To Postmaster, stamped envelopes	34 94	
May	9. 22.	To Southern Bell Tel. & Tel. Co., phone service April	5 53	
May	20. 23.	To C. W. Miller, overdue post. and exp. trip to Sumter	5 64	
May	29. 24.	To C. W. Miller, salary May	166 66	
May	29. 25.	To Mary Currell, salary May	60 00	
May	29. 26.	To P. T. Washington, salary May	75 00	
May	29. 27.	To Margaret Lindsay, salary May	60 00	
June	3. 28.	To The Letter Shop, 1,000 multigraph letters	5 00	
June	5. 29.	To Southern Bell Tel. & Tel. Co., phone service for June	5 50	
June	5. 30.	To The State Company, 2,000 letter heads, 500 3c envelopes	28 65	
June	26. 31.	To Burroughs Adding Mach. Co., repairs on machine	5 50	
June	26. 32.	To R. L. Bryan Co., binding 11 volumes vital statistics	8 03	
June	26. 33.	To C. W. Miller, salary June	166 66	
June	26. 34.	To P. T. Washington, salary June	75 00	
June	26. 35.	To Mary Currell, salary June	60 00	
June	26. 36.	To Margaret Lindsay, salary June	60 00	
June	30. 37.	To Palmetto Ice Co., ice tickets	2 00	
June	30. 38.	To Postmaster, 2,000 return postals, 1,000 stamped envelopes	61 56	
July	7. 39.	To J. T. McCaw, supplies, printing	399 80	
July	11. 40.	To J. T. McCaw, printing return postals, and 2c envelopes	8 75	
July	12. 41.	To C. W. Miller, expenses trip to Easley	11 61	
July	15. 42.	To P. T. Washington, 12 days' salary at \$2.50 a day	30 00	
July	15. 43.	To P. T. Washington, salary July 12 to 31, inst.	45 00	
July	15. 44.	To R. L. Bryan Co., binding 11 volumes vital statistics	8 03	
July	15. 45.	To Southern Bell Tel. & Tel. Co., phone service June	5 50	
July	22. 46.	To State Company, cleaning numbering machine	1 25	
July	22. 47.	To C. W. Miller, overdue postage	3 43	
July	22. 48.	To Louise Thomas, services July 14 to 31	34 00	
July	22. 49.	To Mary Currell, salary July	60 00	
July	22. 40.	To C. W. Miller, salary July	166 66	
July	22. 51.	To Margaret Lindsay, salary July	71 00	
July	31. 52.	To Southern Bell Telephone Co., phone service	5 50	
Aug.	2. 53.	To C. W. Miller, overdue postage and trip Lexington	3 30	
Aug.	15. 54.	To R. L. Bryan Co., binding 12 volumes vital statistics	8 76	
Aug.	25. 55.	To Underwood Typewriter Co., repairing machine	12 50	
Aug.	28. 56.	To C. W. Miller, salary August	166 66	
Aug.	28. 57.	To Margaret Lindsay, salary August	75 00	
Aug.	28. 58.	To Mary Currell, salary August	60 00	
Aug.	28. 59.	To Louise Thomas, salary August	60 00	
Sept.	4. 60.	To C. W. Miller, overdue postage, trip Wedgefield	7 54	
Sept.	4. 61.	To Palmetto Ice Company, ice tickets	2 00	
Sept.	4. 62.	To Southern Bell Telephone Co., phone service August	5 50	
Sept.	13. 63.	To Postmaster, 2,000 2c stamps, 1,000 1c stamps	50 00	
Sept.	13. 64.	To McCaw of Columbia, 2,000 printed letter heads	6 00	
Sept.	13. 65.	To Postmaster, 1,000 stamped envelopes	21 44	
Sept.	22. 66.	To R. L. Bryan Co., binding 11 volumes Vital Statistics	9 03	
Sept.	23. 67.	To C. W. Miller, salary September	166 66	
Sept.	23. 68.	To Margaret Lindsay, salary September	75 00	
Sept.	23. 69.	To Louise Thomas, salary September	60 00	
Sept.	23. 70.	To Mary Currell, salary September	60 00	
Sept.	25. 71.	To Postmaster, 1,000 1c postcards	10 00	
Oct.	9. 72.	To Southern Bell Telephone Co., phone and toll service	6 30	
Oct.	10. 73.	To R. L. Bryan Co., binding 9 volumes vital statistics	6 57	
Oct.	20. 74.	To McCaw of Columbia, printing 1,000 2c envelopes, etc.	7 00	
Oct.	23. 75.	To C. W. Miller, salary October	166 66	
Oct.	30. 76.	To Margaret Lindsay, salary October	75 00	
Oct.	30. 77.	To Mary Currell, salary October	60 00	
Oct.	30. 78.	To Louise Thomas, salary October	60 00	
Oct.	30. 79.	To McCaw of Columbia, envelopes, death certificates, forms, etc.	67 20	
Nov.	7. 80.	To Southern Bell Telephone Co., phone service	5 50	
Nov.	7. 81.	To R. L. Bryan Co., binding 9 volumes Vital Statistics	6 57	
Nov.	17. 82.	To Joint Committee on Printing, office supplies	12 93	
Nov.	28. 83.	To C. W. Miller, salary November	166 66	
Nov.	28. 84.	To Margaret Lindsay, salary November	75 00	
Nov.	28. 85.	To Mary Currell, salary November	60 00	
Nov.	28. 86.	To Louise Thomas, salary November	60 00	
Nov.	28. 87.	To Lorick & Lowrance, glass, putty, etc.	4 90	
Dec.	2. 88.	To Southern Bell Telephone Co., phone service December	5 50	
Dec.	3. 89.	To McCaw of Columbia, 10 sections of cabinets	165 00	
Dec.	8. 90.	To Burroughs Adding Machine Co., 6 months repair machine	5 50	
Dec.	8. 91.	To McCaw of Columbia, 1,000 monthly return cards	5 50	
Dec.	9. 92.	To R. L. Bryan Co., binding 9 volumes Vital Statistics	6 57	

Voucher		BUREAU OF VITAL STATISTICS—(Cont.)	
1919.	No.		
Dec. 9.	93.	To Palmetto Ice Company, ice tickets	2 00
Dec. 10.	94.	To C. W. Miller, overdue postage	2 84
Dec. 20.	95.	To C. W. Miller, salary December	166 66
Dec. 20.	96.	To Margaret Lindsay, salary December	75 00
Dec. 20.	97.	To Louise Thomas, salary December	60 00
Dec. 20.	98.	To Mary Currell, salary December	60 00
Dec. 20.	99.	To The State Co., 5,000 Baby's Birth Register folders	45 00
Dec. 20.	100.	To R. L. Bryan Company, binding 9 volumes, V. S.	6 57
Dec. 27.	101.	To McCaw of Columbia, 1,000 printed monthly return cards	5 50
Dec. 31.	102.	To Joint Committee on Printing, office supplies	4 64

Voucher		Following Contracted in 1919.	
1919.	No.		
Jan. 3.	103.	To Palmetto Co., ice tickets	2 00
Appropriation			\$5,997 28
Expenditures			\$6,000 00
Balance			\$5,997 28
			\$2 72

Voucher		INTENSIVE COUNTY HEALTH WORK.	
1919.	No.		
Mch. 19.	1.	To Columbia Sign Works, lettering door	3 50
Mch. 19.	2.	To E. W. Seibels & Son, rent	18 00
Mch. 23.	3.	To Columbia Lumber and Manufacturing Co., shelving	8 05
Mch. 23.	4.	To L. A. Riser, office furniture	42 50
Apr. 1.	5.	To A. J. Hill, salary	100 00
Apr. 1.	6.	To B. E. Kneece, M. D., salary	175 00
Apr. 1.	7.	To B. E. Kneece, M. D., salary	67 70
Apr. 1.	8.	To Will Garner, salary	75 00
Apr. 1.	9.	To Nora S. Hamner, salary	100 00
Apr. 1.	10.	To C. H. Verner, salary	175 00
Apr. 1.	11.	To R. S. Bailey, M. D., salary	87 50
Apr. 1.	12.	To Mrs. H. T. Schifflay, salary	100 00
Apr. 1.	13.	To James O. Dayle, salary	125 00
Apr. 1.	14.	To L. A. Riser, salary	229 16
Apr. 1.	15.	To G. Crumbaugh, salary	100 00
Apr. 1.	16.	To Postmaster, stamps	25 00
Apr. 1.	17.	To E. L. Filby, salary	125 00
Apr. 3.	18.	To D. T. Rankin, M. D., salary	175 00
Apr. 3.	19.	To D. T. Rankin, traveling expenses	57 88
Apr. 3.	20.	To C. B. Epting, salary	75 00
Apr. 3.	21.	To C. C. Craft, M. D., salary	175 00
Apr. 3.	22.	To C. H. Verner, M. D., salary	75 00
Apr. 3.	23.	To R. S. Bailey, M. D., traveling expenses	28 82
Apr. 4.	24.	To The Letter Shop, 300 multigraph letters	2 25
Apr. 4.	25.	To C. C. Craft, M. D., traveling expenses	75 00
Apr. 9.	26.	To E. W. Seibels & Son, rent	18 00
Apr. 9.	27.	To L. A. Riser, M. D., traveling expenses	90 35
Apr. 16.	28.	To Southern Bell Tel. & Tel. Co., phone and toll service	12 25
Apr. 29.	29.	To State Co., 1,000 weekly reports for nurses	12 50
Apr. 30.	30.	To B. E. Kneece, M. D., salary	175 00
Apr. 30.	31.	To B. E. Kneece, M. D., traveling expenses	74 88
Apr. 30.	32.	To R. C. Roof, salary	100 00
May 1.	33.	To G. Crumbaugh, salary	100 00
May 1.	34.	To L. A. Riser, M. D., salary	229 16
May 1.	35.	To L. A. Riser, M. D., traveling expenses	79 87
May 1.	36.	To C. H. Verner, M. D., salary	175 00
May 1.	37.	To C. H. Verner, M. D., traveling expenses	75 00
May 1.	38.	To W. H. King, salary	72 00
May 1.	39.	To D. T. Rankin, M. D., salary	175 00
May 1.	40.	To D. T. Rankin, traveling expenses	74 70
May 1.	41.	To E. R. Kendall, salary	98 75
May 1.	42.	To R. S. Bailey, M. D., salary	175 00
May 1.	43.	To James P. Doyle, salary	125 00
May 1.	44.	To C. C. Craft, M. D., salary	175 00
May 1.	45.	To M. E. Fisher, salary	75 00
May 1.	46.	To C. S. Kinzer, M. D., salary	175 00
May 1.	47.	To W. P. Prickett, salary	41 40
May 1.	48.	To C. C. Craft, M. D., traveling expenses	75 00
May 5.	49.	To R. S. Bailey, M. D., traveling expenses	73 77
May 6.	50.	To C. S. Kinzer, M. D., traveling expenses	75 00
May 6.	51.	To E. W. Seibels & Son, rent	18 00
May 12.	52.	To Southern Bell Tel. and Tel. Co., phone and toll service	10 45
May 20.	53.	To State Company, 2,000 letter heads	7 69
May 30.	54.	To L. A. Riser, M. D., salary	229 16

		Voucher No.		INTENSIVE COUNTY HEALTH WORK.—(Cont.)		
1919.						
May	30.	55.	To G. Crumbaugh, salary		100	00
May	31.	56.	To B. E. Kneece, M. D., salary		175	00
May	31.	57.	To R. C. Roof, salary		100	00
May	31.	58.	To D. T. Rankin, M. D., salary		175	00
May	31.	59.	To E. R. Kendall, salary		125	00
May	31.	60.	To C. S. Kinzer, M. D., salary		175	00
May	31.	61.	To R. S. Bailey, M. D., salary		175	00
May	31.	62.	To M. P. Smoak, salary		87	38
May	31.	63.	To W. H. King, salary		86	00
May	31.	64.	To C. H. Verner, M. D., salary		175	00
May	31.	65.	To C. C. Craft, M. D., salary		175	00
May	31.	66.	To B. J. Campbell, salary		75	00
May	31.	67.	To R. W. Morrison, salary		43	33
May	31.	68.	To Ned Wilson, salary		32	00
May	31.	69.	To Tom Boyd, salary		17	50
June	2.	70.	To L. A. Riser, M. D., traveling expenses		103	24
June	2.	71.	To C. H. Verner, M. D., traveling expenses		75	00
June	2.	72.	To B. E. Kneece, M. D., traveling expenses		74	75
June	2.	73.	To R. S. Bailey, M. D., traveling expenses		86	70
June	2.	74.	To C. S. Kinzer, M. D., traveling expenses		75	00
June	3.	75.	To E. W. Seibels & Son, rent		18	00
June	3.	76.	To Southern Bell Tel. and Tel. Co., phone and toll service		13	50
June	14.	77.	To C. C. Craft, M. D., traveling expenses		75	00
June	14.	78.	To D. T. Rankin, M. D., traveling expenses		74	99
June	14.	79.	To The Letter Shop, 1000 multigraph letters		5	35
June	14.	80.	To One mirror		3	50
June	26.	81.	To L. A. Riser, M. D., salary June		229	16
June	26.	82.	To Germaine Crumbaugh, salary		100	00
June	26.	83.	To R. S. Bailey, salary		175	00
June	26.	84.	To M. P. Smoak, salary		125	00
June	26.	85.	To C. H. Verner, M. D., salary		175	00
June	26.	86.	To B. E. Nicholson, salary		125	00
June	26.	87.	To B. E. Kneece, M. D., salary		175	00
June	26.	88.	To R. C. Roof, salary		120	00
June	26.	89.	To D. T. Rankin, M. D., salary		175	00
June	26.	90.	To E. R. Kendall, salary		125	00
June	26.	91.	To C. S. Kinzer, M. D., salary		175	00
June	26.	92.	To W. P. Prickett, salary		125	00
June	26.	93.	To C. C. Craft, M. D., salary		175	00
June	26.	94.	To R. W. Morrison, salary		100	00
June	26.	95.	To C. H. Verner, M. D., traveling expenses		75	00
June	30.	96.	To C. C. Craft, traveling expenses		75	00
June	30.	97.	To B. E. Kneece, M. D., traveling expenses		72	50
June	30.	98.	To R. S. Bailey, M. D., traveling expenses		70	00
June	30.	99.	To C. S. Kinzer, M. D., traveling expenses		74	50
June	30.	100.	To L. A. Riser, M. D., traveling expenses		63	23
July	2.	101.	To James Morse, ice		1	90
July	2.	102.	To D. T. Rankin, M. D., traveling expenses		66	25
July	8.	103.	To Southern Bell Tel. and Tel. Co., phone service June		9	10
July	8.	104.	To Lorick Bros., 3 gal. stone cooler		3	50
July	8.	105.	To R. L. Bryan Company, printing		62	50
July	8.	106.	To E. W. Seibels & Son, rent July		18	00
July	23.	107.	To M. C. Yarborough, extra help		50	00
July	23.	108.	To L. A. Riser, M. D., salary July		229	16
July	24.	109.	To Germaine Crumbaugh, salary July		100	00
July	24.	110.	To C. C. Craft, salary		175	00
July	24.	111.	To R. W. Morrison, salary		100	00
July	24.	112.	To J. B. Campbell, salary		75	00
July	24.	113.	To C. H. Verner, M. D., salary		175	00
July	24.	114.	To A. R. Nicholson, salary		125	00
July	24.	115.	To D. T. Rankin, M. D., salary		175	00
July	24.	116.	To Wiley Ingram, salary		100	00
July	24.	117.	To E. R. Kendall, salary		125	00
July	24.	118.	To W. P. Prickett, salary		125	00
July	24.	119.	To C. S. Kinzer, M. D., salary		175	00
July	24.	120.	To B. E. Kneece, M. D., salary		175	00
July	24.	121.	To R. C. Roof, salary		120	00
July	25.	122.	To R. S. Bailey, M. D., salary		175	00
July	25.	123.	To M. P. Smoak, salary		125	00
July	26.	124.	To Mrs. C. S. Kinzer, salary		125	00
July	26.	125.	To C. C. Craft, M. D., traveling expenses		75	00
July	30.	126.	To Dr. D. T. Rankin, traveling expenses July		37	37
July	30.	127.	To Dr. T. B. Kneece, traveling expenses July		68	69
July	31.	128.	To Balance salary July		20	00
July	31.	129.	To W. F. Carnes, stenographic work in March		10	00
July	31.	130.	To James Morse, ice		2	05

Voucher No.		INTENSIVE COUNTY HEALTH WORK.—(Cont.)	
1919.			
Aug.	1. 131.	To Southern Bell Telephone Company, phone service	6 30
Aug.	1. 132.	To Dr. C. H. Verner, traveling expenses July	89 00
Aug.	2. 133.	To McCaw of Columbia, one pair of scissors	2 85
Aug.	2. 134.	To Dr. L. A. Riser, traveling expenses July	85 65
Aug.	5. 135.	To C. S. Kinzer, M. D., traveling expenses July	75 00
Aug.	5. 136.	To R. S. Bailey, M. D., traveling expenses July	75 00
Aug.	16. 137.	To R. L. Bryan Co., file, ledger, 1,000 county nurse reports, etc. ..	53 05
Aug.	29. 138.	To Dr. L. A. Riser, salary for August	229 18
Aug.	29. 139.	To Germaine Crumbaugh, salary for August	100 00
Aug.	29. 140.	To Dr. B. E. Kneece, salary for August	175 00
Aug.	29. 141.	To Dr. B. E. Kneece, traveling expenses August	75 00
Aug.	29. 142.	To R. C. Roof, inspector, salary August	120 00
Aug.	29. 143.	To A. R. Nicholson, Darlington, salary August	125 00
Aug.	29. 144.	To Dr. C. S. Kinzer, salary August	175 00
Aug.	29. 145.	To W. P. Prickett, St. Matthews, salary August	125 00
Aug.	29. 146.	To B. R. Avent, St. Matthews, salary August	125 00
Aug.	29. 147.	To Dr. C. H. Verner, Darlington, salary August	175 00
Aug.	29. 148.	To Dr. R. S. Bailey, Orangeburg, salary August	175 00
Aug.	29. 149.	To Dr. R. S. Bailey, traveling expenses, August	75 00
Aug.	29. 150.	To Dr. Walter Boone, Bishopville, salary 15 days	87 50
Aug.	29. 151.	To James Morse, ice	1 95
Aug.	29. 152.	To Dr. C. C. Craft, salary August	175 00
Aug.	29. 153.	To Dr. C. C. Craft, traveling expenses August	75 00
Aug.	29. 154.	To R. W. Morrison, insp. Bishopville salary August	100 00
Aug.	29. 155.	To Dr. R. S. Rankin, salary August	175 00
Aug.	29. 156.	To Dr. D. T. Rankin, Sumter traveling expenses August	74 87
Aug.	29. 157.	To Wylie Ingram, inspection Sumter, salary August	120 00
Sept.	1. 158.	To Dr. L. A. Riser, traveling expenses August	74 87
Sept.	1. 159.	To Dr. C. S. Kinzer, traveling expenses August	75 00
Sept.	4. 160.	To E. W. Seibels & Sons, rent August & September for 1013	36 00
Sept.	4. 161.	To Southern Bell Telephone Co., phone and toll service	7 20
Sept.	8. 162.	To Postmaster, 1,000 2c stamped envelopes, 1,000 1c stamped envelopes ..	34 42
Sept.	9. 163.	To Dr. C. H. Verner, traveling expenses August	32 00
Sept.	13. 164.	To R. L. Bryan Co., 1,000 report blanks, 3,000 cir.	22 70
Sept.	26. 165.	To Dr. L. A. Riser, salary September	229 18
Sept.	26. 166.	To Germaine Crumbaugh, stenographer, salary September	100 00
Sept.	26. 167.	To Dr. R. S. Bailey, Orangeburg, salary September	175 00
Sept.	26. 168.	To Marvin P. Smoak, inspection, Orangeburg, salary December	125 00
Sept.	26. 169.	To Dr. D. T. Rankin, Sumter, salary September	175 00
Sept.	26. 170.	To W. J. Ingram, inspection, Sumter, salary September	120 00
Sept.	26. 171.	To C. S. Kinzer, M. D., St. Matthews, salary September	175 00
Sept.	26. 172.	To Dr. C. S. Kinzer, St. Matthews, traveling expenses	75 00
Sept.	26. 173.	To W. P. Prickett, inspection, St. Matthews, salary September	125 00
Sept.	26. 174.	To Dr. C. H. Verner, Darlington, salary September	175 00
Sept.	26. 175.	To Dr. C. H. Verner, Darlington traveling expenses, September	75 00
Sept.	26. 176.	To Dr. Walter Boone, Bishopville, traveling expenses September	75 00
Oct.	9. 177.	To E. W. Seibels & Son, rent 1013 for October	20 00
Dec.	8. 178.	To Western Union Telegraph Co., messages November	1 91
Appropriation			\$17,497 90
Expenditures			\$17,500 00
Balance			\$2 10

Voucher No.		BUREAU OF CHILD HYGIENE.	
1919.			
Mch.	6. 1.	To R. A. Dodd, salary February	\$150 00
Mch.	7. 2.	To J. T. McCaw, printing	34 00
Mch.	19. 3.	To The State Company, books and subscriptions to Journal	16 40
Mch.	19. 4.	To Southern Commercial Bureau, stenographic work	4 70
Mch.	19. 5.	To Visiting Nurse Assn., time books and postage	7 04
Mch.	19. 6.	To Jacobs Bros., Co., Inc., 1 Detecto scale	15 00
Apr.	1. 7.	To R. A. Dodd, salary	150 00
Apr.	1. 8.	To R. A. Dodd, traveling expenses	41 11
Apr.	2. 9.	To DuPre Auto Co., 1 Ford Sedan, equipped	924 54
Apr.	1. 10.	To L. G. Washington, stenographic work	15 00
Apr.	9. 11.	To Columbia Office Supply Co., office furniture	47 68
Apr.	9. 12.	To National Child Welfare Assn., set of charts	8 00
Apr.	9. 13.	To Committee on Health Problems in Education, 2 sets health charts ..	12 14
Apr.	9. 14.	To Postmaster, stamps	25 00
Apr.	17. 15.	To American Medical Assn., set of posters	2 00
Apr.	18. 16.	To J. T. McCaw, 400 midwives forms	10 75
Apr.	30. 17.	To State Co., 3,000 envelopes, 1,500 P. H. nurse reports	32 50
Apr.	30. 18.	To Underwood Typewriter Co., 1 typewriter	87 64
Apr.	30. 19.	To R. A. Dodd, salary	150 00
Apr.	30. 20.	To N. C. Cunningham, salary	100 00
Apr.	30. 21.	To R. A. Dodd, traveling expenses	66 45

1919.		Voucher No.	BUREAU OF CHILD HYGIENE.—(Cont.)	
May	6.	22.	To The State Co., supplies, cards, stamps	97 50
May	6.	23.	To Columbia Office Supply Co., folders, guides, etc.	4 50
May	10.	24.	To R. A. Dodd, traveling expenses	81 16
May	12.	25.	To State Company, 5,000 booklets, 4,000 letter heads	51 05
May	24.	26.	To J. T. McCaw, 5,000 schedules	16 75
May	24.	27.	To DuPre Auto Co., repairs on car	8 20
May	28.	28.	To R. A. Dodd, traveling expenses	97 85
May	29.	29.	To R. A. Dodd, salary	150 00
May	29.	30.	To N. C. Cunningham, salary	100 00
June	2.	31.	To G. E. Neal, M. D., transfer Saluda to Wards.	2 50
June	3.	32.	To Southern Bell Telephone Co., phone service May	5 75
June	3.	33.	To E. W. Seibels & Son, rent	20 00
June	14.	34.	To International Harvester Co., 1 set fly charts	25 00
June	14.	35.	To The State Co., 1 facsimile stamp	1 50
June	14.	36.	To National Child Labor Com., 1 child welfare, Ala., N. C., and Okla.	2 75
June	14.	37.	To Cary Printing Co., letters and forms	10 25
June	14.	38.	To J. M. Van Metre, 1 mirror	3 50
June	19.	39.	To Western Union Telegraph Co., official messages	16 55
June	26.	40.	To R. A. Dodd, salary	150 00
June	26.	41.	To N. C. Cunningham, salary	100 00
June	26.	42.	To R. A. Dodd, traveling expenses	89 05
June	30.	43.	To R. L. Bryan Co., 1 desk, 1 chair, 1 pad	63 35
June	30.	44.	To State Company, 6 copies books, on skin, children and adenoids	3 00
June	30.	45.	To The Chester News, subscription News 1 year	2 00
June	30.	46.	To R. A. Dodd, traveling expenses	22 18
July	8.	47.	To Postmaster, stamps	25 00
July	8.	48.	To Commission on Health Problems in Education, set of charts	6 24
July	8.	49.	To Stanley's China Hall, 1 basket and 2 cans	4 70
July	8.	50.	To State Company, sub. to The Survey, American Journal of Pub. Hyg.	6 00
July	15.	51.	To R. A. Dodd, traveling expenses	67 63
June	21.	52.	To City Filling Station, 1 Ford roadster	850 00
July	22.	53.	To Postmaster, stamps	50 00
July	22.	54.	To N. C. Cunningham, salary	100 00
July	22.	55.	To R. A. Dodd, salary	150 00
July	22.	56.	To R. A. Dodd, traveling expenses	17 17
July	29.	57.	To Frances Hayne, services rendered July 8-23	25 00
July	29.	58.	To N. C. Cunningham, expenses trip to Cloverville	6 85
July	30.	59.	To Crowell Publishing Co., 1,000 leaflets; hints to mothers, etc.	6 00
July	30.	60.	To American Medical Association, 1 set posters	2 00
July	30.	61.	To Jacobs Bros. Co., 1 Detecto scale, 1 baby scale	33 00
July	30.	62.	To J. T. McCaw, 100 public health nurse leaflets	15 20
July	30.	63.	To Irene Covington, automobile and office expenses	37 28
July	30.	64.	To Southern Bell Telephone Co., toll service	8 20
Aug.	1.	65.	To Southern Bell Telephone Co., phone service August	5 75
Aug.	2.	66.	To Western Union Telegraph Co., official messages July	2 58
Aug.	7.	67.	To Ruth A. Dodd, expenses July 25-August 6	67 78
Aug.	7.	68.	To The State Company, 500 cards and engraving plate	14 00
Aug.	8.	69.	To Child Health Org., N. Y. City, 50 Child Health Alp., & post. on pg.	2 83
Aug.	15.	70.	To Jno. L. Moore & Sons, 30 test types at 25 cents	7 50
Aug.	19.	71.	To State Co., one facsimile cut \$2.25, printing 2,000 forms	11 25
Aug.	19.	72.	To Richland Garage Co., tubes, clips and labor	9 30
Aug.	25.	73.	To Ruth A. Dodd, expense account August 8-22	42 99
Aug.	25.	74.	To The State Company, supplies	33 50
Aug.	25.	75.	To Carolina Wholesale Hardware Co., water cooler	3 75
Aug.	30.	76.	To Ruth A. Dodd, salary for August	150 00
Aug.	30.	77.	To Ruth A. Dodd, expense account Aug. 23-29 Inc.	47 39
Aug.	30.	78.	To Annie C. Aiken, salary August	100 00
Aug.	30.	79.	To Caro B. McLeod, nurse Dillon, salary Aug. 21-31	36 66
Aug.	30.	80.	To May Murphy, State field nurse, part salary August	25 00
Sept.	3.	81.	To E. W. Seibels & Son, rent August	20 00
Sept.	3.	82.	To The Greenville News, subscription, three months	2 00
Sept.	3.	83.	To The State Company, one facsimile cut, 2,000 forms	11 25
Sept.	3.	84.	To American Medical Association, 1 set baby welfare posters	2 00
Sept.	3.	85.	To The State Company, 20,000 physical record cards	82 50
Sept.	3.	86.	To Fowler's Battery Service, recharge battery Ford car	1 00
Sept.	4.	87.	To Silver's 5 and 10c Store, 6 suit cases at 75c each	4 50
Sept.	4.	88.	To W. M. Thompson, Greenville, ins., self-starter on Ford car, belts, bolts, etc.	116 40
Sept.	4.	89.	To Western Union Telegraph Company, messages August	2 92
Sept.	4.	90.	To McCaw of Columbia, envelopes, folders, forms, etc.	154 75
Sept.	8.	91.	To Auto Repair Co., repairs on Ford	22 80
Sept.	8.	92.	To Fowler's Battery Service, recharging battery	1 00
Sept.	8.	93.	To Southern Bell Telephone Co., phone and toll service, August	9 60
Sept.	10.	94.	To Irene Covington, office expenses August	29 90
Sept.	11.	95.	To Murray Drug Co., tongue depressors, etc.	7 25
Sept.	11.	96.	To Columbia Paper Co., Puritan cups	1 00
Sept.	12.	97.	To Dr. R. M. Pollitzer, expenses trip advisory board bureau child hyg.	13 97
Sept.	12.	98.	To Dr. D. L. Smith, expenses trip advisory board	16 46

Voucher No.		BUREAU OF CHILD HYGIENE.—(Cont.)	
1919.			
Sept.	17. 99.	To Ruth A. Dodd, expense account August 31-September 15	61 70
Sept.	17. 100.	To L. W. Dickerson, 1 telephone stand, 1 tabourette	13 50
Sept.	17. 101.	To Murray Drug Co., 1-6 dozen plasters	1 75
Sept.	20. 102.	To City Filling Station, gas, oil, repairs on Ford	38 40
Sept.	24. 103.	To The State Company, 3,000 treatment reports	12 00
Sept.	24. 104.	To Ruth A. Dodd, expense account September 14-23	38 85
Sept.	24. 105.	To Ruth A. Dodd, salary September	150 00
Sept.	24. 106.	To Annie C. Aiken, salary September	110 00
Sept.	24. 107.	To Caro B. McLeod, nurse Dillon County, salary September	110 00
Sept.	24. 108.	To May Murphy, State field nurse, salary September	150 00
Sept.	24. 109.	To Ellen Woods Carter, nurse Beaufort, salary September	100 00
Sept.	27. 110.	To James Morse, ice for office	1 95
Oct.	3. 111.	To Irene Covington, nurse Chester County, expense account September	41 27
Oct.	3. 112.	To American Medical Association, Chicago, 2 sets welfare charts ...	4 00
Oct.	3. 113.	To Jacobs Bros. Co., 1 Delecto scales, 1 baby scales	33 00
Oct.	3. 114.	To Springstein Mills, Chester, liquid soap, drinking cups, etc.	18 50
Oct.	3. 115.	To Com. on hith. prob. in ed., N. Y., 2 sets health charts & express ..	12 44
Oct.	3. 116.	To Stanley's China Hall, packing scales and express	1 72
Oct.	6. 117.	To Postmaster, 1,500 2c stamps	30 00
Oct.	8. 118.	To E. W. Seibels & Son, rent October	25 00
Oct.	8. 119.	To Western Union Telegraph Co., messages September	33 89
Oct.	8. 120.	To City Filling Station, storage, repairs, etc.	58 16
Oct.	8. 121.	To Richland Garage Co., repairing Ford Sedan	101 10
Oct.	8. 122.	To Ruth A. Dodd, expense account September 25-October 4, inc. ...	29 94
Oct.	3. 123.	To Southern Bell Telephone Co., phone and toll service	14 53
Oct.	11. 124.	To R. L. Bryn Co., steel file, index and freight	29 50
Oct.	11. 125.	To May Murphy, Asst. Sup. P. H. Nurs. expense account Oct. 3-9 ..	25 29
Oct.	11. 126.	To John Rountree, extra work getting up fair exhibit	24 00
Oct.	16. 127.	To W. E. Houston, delivering car to Edgefield County	15 00
Oct.	16. 128.	To Columbia Lumber and Mfg. Co., lumber for fair exhibit	22 25
Oct.	16. 129.	To Florence Daily News, to subscription	5 00
Oct.	16. 130.	To H. R. McDonald, supplies for fair exhibit	2 56
Oct.	21. 131.	To Southern Ry., ticket agent, scrip books	45 00
Oct.	21. 132.	To H. R. McDonald, expenses incurred in fair exhibit	9 43
Oct.	22. 133.	To Ruth A. Dodd, salary October	150 00
Oct.	25. 134.	To Ruth A. Dodd, expense account October 6-20, inc.	32 77
Oct.	25. 135.	To Murray Drug Co., tongue depressors, iodine	26 55
Oct.	25. 136.	To Postmaster, 2,000 1c stamps	20 00
Oct.	25. 137.	To Southern Railway ticket agent, 1 scrip book	30 00
Oct.	30. 138.	To Annie C. Aiken, salary October	110 00
Oct.	30. 139.	To Malinda Murphy, salary October	150 00
Oct.	30. 140.	To H. R. Macdonald, salary October 8-31 inc.	92 69
Oct.	30. 141.	To Grace Brumbaugh, nurse, salary October 6-31	100 75
Oct.	30. 142.	To Florence Bryant, nurse, salary October 15-31	62 50
Oct.	30. 143.	To Caro McLeod, nurse, salary October	110 00
Nov.	3. 144.	To James Morse, ice for office	1 60
Nov.	3. 145.	To Malinda Murphy, ex. acct. Oct. 24-26 inc. & exp. inc. at Fair ex ..	29 60
Nov.	6. 146.	To Ruth A. Dodd, expense account Oct. 25-Nov. 1.	96 07
Nov.	6. 147.	To Ellen Woods Carter, salary October	100 00
Nov.	6. 148.	To H. R. Macdonald, supplies fair exhibit	17 50
Nov.	6. 149.	To Irene Covington, expense account Chester County unit	46 62
Nov.	6. 150.	To The State Co., folders, forms, cards, etc.	91 50
Nov.	6. 151.	To McCaw of Columbia, letter heads, tags, folders, etc.	122 75
Nov.	6. 152.	To Columbia Office Supply Co., 1 flat top desk	35 00
Nov.	6. 153.	To J. L. Minnaugh, supplies for fair exhibit	33 37
Nov.	6. 154.	To Stanley's China Hall, supplies for fair exhibit	18 20
Nov.	6. 155.	To J. M. Van Meter, 2 tables and 1 chair	11 50
Nov.	6. 156.	To Western Union Telegraph Co., messages in October	9 75
Nov.	6. 157.	To Kolynos Co., New Haven, Conn., 2 sets charts	6 00
Nov.	6. 158.	To C. C. & C. R. Edwards, to premium car 1 year Chester	14 84
Nov.	6. 159.	To Clark Furniture Co., desk, chairs, cot, table, etc.	85 85
Nov.	10. 160.	To Malinda Murphy, expense account Nov. 4-8 inc.	25 49
Nov.	17. 161.	To Richland Garage Co., labor and auto supplies	43 75
Nov.	17. 162.	To Malinda Murphy, expense account, Nov. 12-14 inc.	17 99
Nov.	17. 163.	To Ruth A. Dodd, expense account, Nov. 10-15 inc.	59 03
Nov.	18. 164.	To Joint Committee on Printing, office supplies	48 90
Nov.	26. 165.	To Malinda Murphy, expense account	10 49
Nov.	26. 166.	To Ruth A. Dodd, salary November	150 00
Nov.	26. 167.	To Malinda Murphy, salary November	150 00
Nov.	26. 168.	To Annie C. Aiken, salary November	110 00
Nov.	26. 169.	To Florence Bryant, salary November	125 00
Nov.	27. 170.	To Ellen Woods Carter, salary November	100 00
Nov.	28. 171.	To Lorick & Lowrance, paint, nails, etc.	12 03
Nov.	28. 172.	To Caro McLeod, salary November	125 00
Nov.	29. 173.	To Grace Brumbaugh, salary November	125 00
Dec.	5. 174.	To E. W. Seibels & Son, rent December	25 00
Dec.	5. 175.	To Columbia Lumber & Mfg. Co., packing and rough	14 69
Dec.	5. 176.	To Beatty's Studio, copying 9 small photos	4 60
Dec.	5. 177.	To Columbia Paper Co., 1 roll paper	3 50

1919.		Voucher No.	BUREAU OF CHILD HYGIENE.—(Cont.)	
Dec.	5.	178.	To W. D. Brown, Hiltonhead, S. C., registering 9 midwives at 25c each	2 25
Dec.	5.	179.	To The State Co., printing 1,000 cards	58 00
Dec.	5.	180.	To Murray Drug Co., 1,500 tongue depressors	4 50
Dec.	5.	181.	To Irene Covington, expense account November	62 40
Dec.	5.	182.	To Malinda Murphy, 1st-3rd, expense account	19 03
Dec.	5.	183.	To Western Union Telegraph Co., messages November	20 28
Dec.	8.	184.	To Columbia Sign Works, painting banner and cards	10 00
Dec.	10.	185.	To Southern Bell Telephone Co., toll service November	5 33
Dec.	10.	186.	To State Co., 1 health & med. Ins., & mak. plate, 2 cols. reg. births	33 00
Dec.	10.	187.	To Cary Printing Co., 5,000 file covers and folding	38 50
Dec.	10.	188.	To R. L. Bryan Co., 100 C. P. engraved business cards	9 25
Dec.	10.	189.	To Modern Hospital Publishing Co., classified adv.	2 05
Dec.	13.	190.	To Malinda Murphy, expense account Dec. 7-15	32 62
Dec.	13.	191.	To Peace Printing Co., 300 copies original article	12 66
Dec.	16.	192.	To Ruth A. Dodd, expense account	62 25
Dec.	16.	193.	To Postmaster, stamps	17 92
				\$10,000 00
Appropriation				\$10,000 00
Expenditures				\$10,000 00

1919.	Voucher No.	DIVISION OF VENEREAL DISEASE CONTROL.	
Mch.	1. 45.	To J. N. Finlay, drayage	\$1 50
Mch.	4. 46.	To Frank S. Betz Co., clinic equipment	106 04
Mch.	4. 47.	To Southern Bell Telephone Company, phone rent	4 00
Mch.	4. 48.	To C. V. Akin, reimbursement, misc. drugs	20 00
Mch.	5. 49.	To American Ry. Express Co., express charges	4 69
Mch.	8. 50.	To E. W. Seibels & Son, office rent	18 00
Mch.	8. 51.	To American Ry. Express Company, express charges	4 87
Mch.	8. 52.	To Columbia, Ry., Gas & Electric Co., misc. supp. for clinic	15 00
Mch.	12. 53.	To Stanley's China Hall, misc. supplies for clinic	6 77
Mch.	13. 54.	To Capital Publishers, V. D. literature	109 25
Mch.	13. 55.	To C. V. Akin, reimbursement for misc. drugs	47 61
Mch.	17. 56.	To McCaw of Columbia, printing and posters	10 75
Mch.	17. 57.	To Industrial Printing Co., V. D. literature	48 50
Mch.	17. 58.	To Kee Lox Mfg. Co., office supplies	14 00
Mch.	17. 59.	To Diarsenol Co., arspenamine	1,000 00
Mch.	20. 60.	To American Ry. Express Co., express charges	11 86
Mch.	31. 61.	To F. O. Winter, salary March, 1919	85 00
Mch.	31. 62.	To F. M. Geer, salary March, 1919	75 00
Mch.	31. 63.	To Thomas P. Brown, salary March, 1919	200 00
Mch.	31. 64.	To E. M. Allen, salary	150 00
Mch.	31. 65.	To G. E. Neal, salary March, 1919	200 00
Mch.	31. 66.	To R. M. Graham, salary March, 1919	100 00
Mch.	31. 67.	To James H. Fowles, salary, March, 1919	100 00
Mch.	31. 68.	To N. B. Edgerton, salary March, 1919	50 00
Mch.	31. 69.	To American Ry. Express Co., express charges	3 86
Mch.	31. 70.	To Dixie Auto Co., auto hire	60 00
Mch.	31. 71.	To Summers Printing Co., V. D. literature	91 75
Mch.	31. 72.	To Frank S. Betz Co., clinic equipment	95 00
Mch.	31. 73.	To John Rountree, salary	12 00
Apr.	1. 74.	To Southern Bell Telephone Co., phone rent	4 00
Apr.	1. 75.	To E. W. Seibels & Son, office rent	18 00
Apr.	1. 76.	To Columbia Office Supply, office supplies	8 00
Apr.	4. 77.	To Industrial Printing Company	48 50
Apr.	7. 78.	To C. V. Akin, reimbursement misc. drugs	47 28
Apr.	9. 79.	To The State Co., printing	8 00
Apr.	9. 80.	To McCaw of Columbia, printing and office supplies	63 50
Apr.	10. 81.	To R. L. Bryan Co., office supplies	5 88
Apr.	10. 82.	To Stanley Frame Company, framing and mailing placards	256 50
Apr.	10. 83.	To C. V. Akin, reimbursement for scrip books	30 00
Apr.	11. 84.	To The Geer Drug Co., drugs for clinic use	3 50
Apr.	11. 85.	To Superintendent of documents, V. D. literature	65 00
Apr.	15. 86.	To Leon Banov, salary	26 67
Apr.	17. 87.	To Liberty Paper Co., office supplies	8 72
Apr.	17. 88.	To Columbia Lumber Co., material for woodwork in office	9 60
Apr.	19. 89.	To T. W. Rhodes, reimbursement travel under official order	39 05
Apr.	19. 90.	To S. E. Wheeler, salary	106 67
Apr.	30. 91.	To C. V. Akin, reimbursement for scrip book	30 00
Apr.	30. 92.	To American Ry. Express Co., express charges	1 31
Apr.	30. 93.	To E. M. Allen, salary	150 00
Apr.	30. 94.	To Thomas P. Brown, salary	200 00
Apr.	30. 95.	To Diarsenol Co., arspenamine	850 00
Apr.	30. 96.	To Dixie Auto Co., auto hire	120 00
Apr.	30. 97.	To N. B. Edgerton, salary	50 00
Apr.	30. 98.	To James H. Fowles, salary	100 00
Apr.	30. 99.	To F. M. Geer, salary	75 00
Apr.	30. 100.	To R. M. Graham, salary	150 00
Apr.	30. 101.	To G. E. Neal, salary	200 00

		Voucher No.	DIVISION OF VENEREAL DISEASE CONTROL—(Cont.)		
1919.					
Apr.	30.	102.	To John Rountree, salary	12 00	
Apr.	30.	103.	To T. W. Rhodes, salary	160 00	
Apr.	30.	104.	To S. E. Wheeler, salary	200 00	
Apr.	30.	105.	To F. O. Winter, salary	85 00	
Apr.	30.	106.	To American Ry. Express Co., express charges	13 04	
Apr.	30.	107.	To American Ry. Express Co., express charges	3 07	
May	5.	108.	To E. W. Seibels & Son, office rent	18 00	
May	5.	109.	To Southern Bell Tel. Co., phone rent	5 55	
May	5.	110.	To Columbia Office Supply Co., office supplies	2 50	
May	5.	111.	To Cary Printing Co., printing	21 00	
May	5.	112.	To Frank S. Betz Co., clinic equipment	95 00	
May	17.	113.	To American Ry. Express Co., express charges	3 45	
May	20.	114.	To Lee Lash Company, slides	48 00	
May	20.	115.	To Wynkoop-Hallendeck-Crawford, card	32 40	
May	23.	116.	To George B. Ratcliff, awning for clinic	3 50	
May	23.	117.	To Shand Builders Supply Co., framing posters	35 00	
May	27.	118.	To U. S. Administration ticket office, scrip books	60 00	
May	31.	119.	To E. M. Allen, salary	150 00	
May	31.	120.	To Thomas P. Brown, salary	200 00	
May	31.	121.	To Diarsenol Company, arsphenamine	900 00	
May	31.	122.	To N. B. Edgerton, salary	50 00	
May	31.	123.	To James H. Fowles	100 00	
May	31.	124.	To Dixie Auto Co., auto hire	120 00	
May	31.	125.	To Frierson Drug Co., misc. medical supplies	4 00	
May	31.	126.	To F. M. Geer, salary	75 00	
May	31.	127.	To R. M. Graham, salary	150 00	
May	31.	128.	To G. E. Neal, salary	200 00	
May	31.	129.	To T. W. Rhodes, salary	200 00	
May	31.	130.	To John Rountree, salary	12 00	
May	31.	131.	To S. E. Wheeler, salary	200 00	
May	31.	132.	To F. O. Winter, salary	85 00	
May	31.	133.	To Meyer Frank, record cards for clinic use	3 00	
May	31.	134.	To E. Morgan, salary	37 50	
May	31.	135.	To Frank S. Betz Co., clinic equipment	95 00	
May	31.	136.	To C. V. Akin, reimbursement misc. supplies	4 12	
May	31.	137.	To R. L. Alexander, salary for services rendered	20 00	
June	6.	138.	To Southern Bell Tel. Co., phone rent	5 50	
June	10.	143.	To Armstrong Drug Co., misc. drugs	20 50	
June	20.	152.	To Kerrison Dry Goods Co., misc. supplies for clinic use	57 83	
June	20.	153.	To Ideal Laundry, laundry for clinic linen	1 00	
June	30.	159.	To Diarsenol Co., arsphenamine	900 00	
June	30.	160.	To T. P. Brown, salary	200 00	
June	30.	173.	To American Ry. Express Co., express charges	1 45	
Appropriation.				\$10,000 00	
Expenditures				\$10,000 00	
				\$10,000 00	

		Voucher No.	MAINTENANCE SOUTH CAROLINA SANATORIUM.		
1919.					
Mch.	6.	1.	To Annie I. Rembert, salary	\$316 66	
Mch.	6.	2.	To Ernest Cooper, salary	333 32	
Mch.	6.	3.	To Clara Wood, salary	120 00	
Mch.	6.	4.	To Carrie Spivey, salary	150 00	
Mch.	6.	5.	To Ernest Cooper, salaries for pupil nurses and employees	416 00	
Mch.	7.	6.	To Southern Bell Tel. & Tel. Co., phone service and toll	12 49	
Mch.	7.	7.	To J. T. McCaw, application forms	12 75	
Mch.	21.	8.	To DuPre Auto Co., one ton Ford truck	775 00	
Mch.	21.	9.	To Lorick & Lowrance, groceries	949 04	
Mch.	27.	10.	To Annie I. Rembert, salary	158 33	
Mch.	27.	11.	To Ernest Cooper, salary	166 66	
Mch.	27.	12.	To Mrs. Clara Wood, salary	60 00	
Mch.	27.	13.	To Carrie Spivey, salary	75 00	
Mch.	27.	14.	To Ernest Cooper, salaries for pupil nurses and employees	277 25	
Mch.	28.	15.	To Hubert Claytor, M. D., ad. es. W. R. Claytor, M. D., sal Mch. 1919	110 00	
Mch.	31.	16.	To E. B. Moyer, salary 33 days	66 00	
Apr.	4.	17.	To Southern Bell Tel. & Tel. Co., phone service	12 25	
Apr.	5.	18.	To Globe Dry Goods Co., glasses, plates and dishes	44 20	
Apr.	5.	19.	To Standard Oil Co., Charlotte, N. C., oil & gasoline	33 48	
Apr.	9.	20.	To J. T. McCaw, weekly report forms	7 50	
Apr.	10.	21.	To C. C. Fire Hose Co., Canton Junction, Mass., Childs' extinguishers, straps attached	198 00	
Apr.	10.	22.	To S. B. Sexton Stove & Mfg. Co., Baltimore, Md., hardware	17 50	
Apr.	10.	23.	To James L. Tapp Co., hospital gauze	75 00	
Apr.	11.	24.	To Murray Drug Co., drugs	1 60	
Apr.	11.	25.	To Habenicht-McDougal Co., hardware	18 75	
Apr.	17.	26.	To Marshall-Summers, Seed & Grain Co., feed	34 06	
Apr.	17.	27.	To Clinchfield Fuel Co., Spartanburg, coal	282 49	
Apr.	18.	28.	To Murray Drug Co., drugs	1 00	

1919.		Voucher No.	MAINTENANCE SOUTH CAROLINA SANATORIUM.—(Cont.)	
Apr.	18.	29.	To Standard Oil Co., oil and gasoline	72 73
Apr.	29.	30.	To Ernest Cooper, M. D., salary	166 66
Apr.	29.	31.	To Carrie Spivey, salary	75 00
Apr.	30.	32.	To Clara Wood, salary	60 00
Apr.	30.	33.	To A. I. Rembert, salary	158 33
Apr.	30.	34.	To Ernest Cooper, M. D., salaries nurses, servants	215 00
Apr.	30.	35.	To Southern States Supply Co., churn	27 50
Apr.	30.	36.	To Burnitol Mfg. Co., 50 M sputum cups	231 50
Apr.	30.	37.	To Kirkland Distributing Co., Just dairy feed	288 00
Apr.	30.	38.	To H. W. Baker Linen Co., 6 dozen bath towels	36 00
May	6.	39.	To Southern Bell Tel. & Tel. Co., phone and toll service	12 35
May	6.	40.	To Standard Oil Company, oil and gasoline	27 54
May	12.	41.	To Parker Lumber Co., 28,600 pounds cotton seed hulls	157 30
May	20.	42.	To Murray Drug Company, supplies	36 29
May	20.	43.	To Standard Oil Company, oil and gasoline	39 40
May	24.	44.	To Standard Oil Company, oil and gasoline	27 30
May	30.	45.	To Ernest Cooper, M. D., salary	166 66
May	30.	46.	To Carrie Spivey, salary	75 00
May	30.	47.	To Clara Wood, salary	60 00
June	2.	48.	To Ernest Cooper, M. D., salaries nurses and servants	289 15
June	3.	49.	To Southern Bell Tel. & Tel. Co., phone and toll service	13 31
June	5.	50.	To Southern States Supply Co., one exp. rubber and 1 check poppet	1 20
June	5.	51.	To Murray Drug Co., drugs, etc.	5 95
June	13.	52.	To Southern States Supply Co., plumbing supplies	7 00
June	13.	53.	To Stone & Forsythe Co., 5 M. pockets and 200 sputum cup holders.	44 50
June	13.	54.	To Standard Oil Co., oil and gasoline	62 51
June	19.	55.	To Murray Drug Co., 1 gal. fly driver and spray	3 40
June	19.	56.	To Marshall-Summers Grain & Seed Co., Purina chow chow and grits	80 25
June	19.	57.	To Standard Oil Co., 1 bbl. Polarine oil	27 25
June	26.	58.	To Ernest Cooper, M. D., salaries pupil nurses and servants	237 00
June	26.	59.	To Ernest Cooper, M. D., salary	166 66
June	26.	60.	To Carrie Spivey, salary	75 00
June	26.	61.	To Clara Wood, salary	60 00
June	26.	62.	To Standard Oil Company, gasoline and oil	56 18
July	12.	63.	To Murray Drug Co., ice caps, milk bottles	4 13
July	12.	64.	To Capital City Steam Laundry, Jan. through June	313 03
July	14.	65.	To Southern Bell Tel. & Tel. Co., phone service	12 59
July	14.	66.	To Standard Oil Co., gas and oil	73 95
July	22.	67.	To Murray Drug Co., boric acid, quinine, etc.	33 15
July	23.	68.	To Ernest Cooper, M. D., salary	166 66
July	23.	69.	To Carrie Spivey, salary	79 00
July	26.	70.	To J. T. McCaw, charts, forms, etc.	54 00
July	30.	71.	To Clara Wood, salary	60 00
July	30.	72.	To Ernest Cooper, Supt., salaries nurses and servants for July	256 00
July	31.	73.	To Standard Oil Co., oil and gas.	46 18
July	31.	74.	To Murray Drug Co., thermometers, 1 dozen	10 00
Aug.	3.	75.	To Southern Bell Telephone Co., phone and toll service	11 14
Aug.	2.	76.	To Toledo Cooker Co., Toledo, Ohio, kitchen utensils & food conveyor	167 74
Aug.	15.	77.	To Lorick & Lowrance, miscellaneous articles	13 70
Aug.	15.	78.	To Standard Oil Co., oil and gasoline	40 05
Aug.	20.	79.	To Southern Bell Telephone Co., toll service	8 50
Aug.	25.	80.	To Marshall-Summers Seed & Grain Co., lard compound	152 10
Sept.	2.	81.	To Mrs. Carrie Floyd, housekeeper, salary August	56 00
Sept.	2.	82.	To Carrie Spivey, nurse, salary August	75 00
Sept.	2.	83.	To Dr. Ernest Cooper, Supt., salary August	166 66
Sept.	2.	84.	To Dr. Ernest Cooper, Supt., salaries August, pupil nurses and servants	257 00
Sept.	4.	85.	To Toledo Cooker Co., kitchen utensils	3 31
Sept.	9.	86.	To Murray Drug Co., medical supplies	14 00
Sept.	9.	87.	To Arctic Company, city, duck for truck cover	3 20
Sept.	11.	88.	To Southern Bell Telephone Co., phone and toll service	12 82
Sept.	11.	89.	To Murray Drug Co., thermometers, etc.	10 70
Sept.	11.	90.	To Taylor Commission Co., Atlanta, hulls	142 03
Sept.	11.	91.	To Standard Oil Company, oil and gasoline	96 55
Sept.	11.	92.	To Lorick & Lowrance, hardware supplies, etc.	138 76
Sept.	18.	93.	To Clinchfield Fuel Co., Spartanburg, 1 car coal	129 35
Sept.	18.	94.	To Standard Oil Company, oil and gasoline	66 15
Sept.	18.	95.	To The Wright Company, Atlanta, kitchen and dining room supplies	100 95
Sept.	24.	96.	To Carrie Spivey, nurse, salary September	75 00
Sept.	24.	97.	To Dr. Ernest Cooper, Supt., salary September	166 66
Sept.	25.	98.	To Mrs. Carrie Floyd, housekeeper, salary September	60 00
Sept.	26.	99.	To Dr. Ernest Cooper, salaries pupil nurses and servants for September	234 85
Sept.	26.	100.	To Annie Sing, asst. housekeeper, salary September	20 00
Sept.	26.	101.	To Standard Oil Co., oil and gasoline	17 00
Sept.	26.	102.	To Murray Drug Co., medical supplies	16 69
Oct.	10.	103.	To Southern Bell Telephone Co.	11 36
Oct.	10.	104.	To Marshall-Summers Seed & Grain Co., feed	83 75
Oct.	10.	105.	To Standard Oil Co., gasoline	38 50
Oct.	10.	106.	To Will Ross gauze for sanatorium	97 73

Voucher No.		MAINTENANCE SOUTH CAROLINA SANATORIUM.—(Cont.)	
1919.			
Oct. 16.	107.	To Standard Oil Co., oil and gasoline	59 83
Oct. 20.	108.	To Globe Dry Goods Company, dishes, glasses, etc.	166 53
Oct. 30.	109.	To Dr. Ernest Cooper, Supt., salary	166 66
Oct. 30.	110.	To Carrie Floyd, housekeeper, salary	60 00
Oct. 30.	111.	To Carrie Spivey, nurse, salary	75 00
Nov. 4.	112.	To Murray Drug Co., ginger and benzoate	2 40
Nov. 4.	113.	To Dr. Ernest Cooper, salaries for pupil nurses and servants	233 50
Nov. 17.	114.	To Murray Drug Co., iodine, etc.	6 50
Nov. 17.	115.	To Beechhurst Mfg. Co., 12 dozen thermometers	87 00
Nov. 17.	116.	To Globe Dry Goods Co., kitchen supplies	4 00
Nov. 22.	117.	To Southern Bell Telephone Co., phone and toll service	15 48
Dec. 1.	118.	To Standard Oil Co., gasoline and oil	155 34
Dec. 1.	119.	To Clinchfield Fuel Co., 1 car coal	137 28
Dec. 1.	120.	To Dr. Ernest Cooper, Supt., salary September	166 66
Dec. 1.	121.	To Carrie Spivey, nurse, salary November	75 00
Dec. 1.	122.	To Carrie Floyd, housekeeper, salary November	60 00
Dec. 3.	123.	To Dr. Ernest Cooper, December salaries nurses and servants	247 50
Dec. 8.	124.	To Southern Bell Telephone Co., phone and toll service	11 26
Dec. 8.	125.	To Murray Drug Co., medical supplies	3 30
Dec. 12.	126.	To Standard Oil Co., oil and gasoline	54 88
Dec. 13.	127.	To Globe Dry Goods Co., kettle, pans, etc.	3 65
Dec. 20.	128.	To Dr. Ernest Cooper, salary December	166 66
Dec. 20.	129.	To Carrie Spivey, salary December	75 00
Dec. 20.	130.	To Mrs. Carrie Floyd, salary December	60 00
Dec. 20.	131.	To Dr. Ernest Cooper, December salaries pupil nurses and servants..	245 50
Dec. 22.	132.	To Standard Oil Co., oil and gasoline	42 38

Voucher No.		Following Bills Contracted in 1919.	
1920.			
Jan. 3.	133.	To The Wright Co., Atlanta, Ga., 2 dozen jugs	\$41 00
Jan. 5.	134.	To Standard Oil Co., oil and gasoline	82 38
Jan. 5.	135.	To Fish & Rhinehart, 4 cases eggs	93 20
Jan. 5.	136.	To Loric & Lowrance, groceries for December	258 88
Jan. 5.	137.	To Southern Distributing Co., Greenville, S. C., 25 M. sputum cups ..	120 50
Jan. 6.	138.	To Southern Bell Telephone Co., toll service for December	2 08
Jan. 14.	139.	To Murray Drug Co., salts and quinine	7 45
Jan. 14.	140.	To Standard Oil Co., oil and gasoline	61 75
Jan. 14.	141.	To Fish & Rhinehart, Clyde, N. C., 2 cases eggs	43 60
Jan. 22.	142.	To Capital City Steam Laundry, laundry bill June through December	452 88
Jan. 30.	143.	To C. C. Pearce & Co., turnips, onions, potatoes, etc.	29 47
			\$14,950 57
Appropriation			\$15,000 00
Expenditures			\$14,950 57
Balance			\$49 43
Outstanding bills (?)			

BEDS FOR ONE PATIENT FROM EACH COUNTY AND EXPENSES NECESSARY TO ERECT TENT UNITS.

Voucher No.		TENT UNITS.	
1919.			
Mch. 18.	1.	To James A. Hayne, M. D., board and treatment 14 patients, S. C. San.	\$832 00
Mch. 27.	2.	To James A. Hayne, M. D., bd. & treat., 3 pat. 31, 90, 81 days resp.	202 00
Apr. 30.	3.	To James A. Hayne, M. D., board and treat., 17 patients at S. C. San.	537 00
May 6.	4.	To Richland Co., Tuberculosis Camp, board and treatment 1 patient..	40 00
May 29.	5.	To A. I. Rembert, salary for May	158 33
May 29.	6.	To James A. Hayne, M. D., board and treatment 23 patients	921 00
June 27.	7.	To James A. Hayne, M. D., board and treatment 21 patients	678 00
June 26.	8.	To Richland Co. Tuberculosis Camp, board and treatment 2 patients	70 00
July 22.	9.	To A. I. Rembert, salary for July	158 33
July 30.	10.	To James A. Hayne, M. D., board and treatment for 23 patients ..	936 00
Aug. 22.	11.	To Richland Co. Tuber. Camp, bd. & treat. for 1 pat. July 5-Aug. 5	40 00
Aug. 26.	12.	To James A. Hayne, M. D., treas., board and treatment, 22 patients ..	729 00
Sept. 4.	13.	To Richland Co. Tuber. Camp, board and treatment for 1 patient.	40 00
Sept. 23.	14.	To A. I. Rembert, field secretary, salary September	158 33
Sept. 23.	15.	To James A. Hayne, Treas., board and treatment 28 patients	834 00
Oct. 25.	16.	To Camp Alice, Sumter, S. C., board 1 month, 2 patients, transfer	90 75
Oct. 30.	17.	To A. I. Rembert, field secretary, salary October	158 33
Oct. 30.	18.	To Richland Co. Tuber. Camp, board 1 month, 1 patient	40 00
Nov. 3.	19.	To James A. Hayne, Treas., board and treatment 32 patients	1,035 00
Nov. 17.	20.	To Camp Alice, Sumter, S. C., board 1 month 3 patients	136 20
Nov. 26.	21.	To James A. Hayne, Treas., board and treatment 42 patients	1,186 00
Dec. 13.	22.	To Camp Alice, Sumter, board 3 patients	137 38
Dec. 20.	23.	To A. I. Rembert, salary December	158 33
Jan. —.	24.	To James A. Hayne, Treas., board 24 patients for December	724 00
			\$9,999 98
Appropriation			\$10,000 00
Expenditures			\$9,999 98
Balance			\$0.02

APPROPRIATION RELIEF AND EDUCATION TUBERCULOSIS PATIENTS.

1919.		Voucher No.		
Mch.	6.	1.	To Irene Covington, salary Jan. and Feb.	\$200 00
Mch.	6.	2.	To L. G. Washington, services rendered Jan. and Feb.	50 00
Mch.	6.	3.	To R. H. Walton, salary Jan. and Feb.	150 00
Mch.	6.	4.	To A. I. Rembert, traveling expenses	13 50
Mch.	7.	5.	To J. T. McCaw, printing	48 35
Mch.	26.	6.	To R. H. Walton, traveling expenses	39 53
Mch.	27.	7.	To L. G. Washington, salary March	35 00
Mch.	27.	8.	To R. H. Walton, salary March	75 00
Mch.	27.	9.	To Irene Covington, expense account January	105 93
		10.	To Postmaster, 2,000 stamped envelopes, 3s	67 64
Apr.	1.	11.	To Irene Covington, salary March	100 00
Apr.	9.	12.	To J. T. McCaw, supplies, multigraph letters, etc.	67 45
Apr.	10.	13.	To R. H. Walton, traveling expenses March	74 54
Apr.	12.	14.	To Postmaster, stamped envelopes and stamps	40 32
Apr.	18.	15.	To J. T. McCaw, multigraph letters, cards, envelopes	108 30
Apr.	19.	16.	To Columbia Bag. & Trans. Co., auto hire, Jan. and Feb.	20 00
Apr.	30.	17.	To A. I. Rembert, expense account, April	7 75
Apr.	30.	18.	To R. H. Walton, salary, April	75 00
Apr.	30.	19.	To L. G. Washington, services rendered April	55 00
May	3.	20.	To Columbia Sign Works, painting sign on door, 405	7 00
May	3.	21.	To R. H. Walton, traveling expenses, April	56 66
May	5.	22.	To U. S. Construction, Q. M., three office chairs	19 00
May	6.	23.	To E. W. Seibels & Sons, rent 405, May	20 00
May	23.	24.	To A. I. Rembert, instal. phone and one month's service in adv. May 3	9 25
May	23.	25.	To J. T. McCaw, multigraph letters, stationery, etc.	53 60
May	29.	26.	To R. H. Walton, salary May	75 00
May	29.	27.	To L. G. Washington, salary May	35 00
May	29.	28.	To Postmaster, to stamps	10 00
May	29.	29.	To Underwood Typewriter Co., one typewriter	87 64
June	26.	30.	To R. H. Walton, expense account May	44 26
June	25.	31.	To Postmaster, stamps	15 00
June	26.	32.	To A. I. Rembert, salary June	158 33
June	26.	33.	To L. G. Washington, salary June	35 00
June	22.	34.	To R. H. Walton, salary June	75 00
June	26.	35.	To Irene Covington, salary May	100 00
June	26.	36.	To Irene Covington, traveling expenses, June 3 to 14	12 63
June	26.	37.	To R. H. Walton, traveling expenses June	51 91
June	26.	38.	To Cope's Transfer, two trips to Sanatorium	13 00
June	26.	39.	To J. C. Petty, subscriptions 14 mags. for Sanatorium	32 75
June	26.	40.	To State Company, one facsimile stamp, Mrs. Rembert	1 50
June	26.	41.	To Columbia Office Supply Co., office supplies	42 90
June	23.	42.	To P. M. Spence, subscriptions to 12 magazines	19 00
June	30.	43.	To A. I. Rembert, traveling expenses, June	17 95
July	8.	44.	To Richland Co. Tuber. Camp, bd. 1 pat., 1 mo.; 1 pat. 16 days	56 00
July	14.	45.	To John Rountree, hat tree	4 50
July	15.	46.	To Southern Bell Tel. & Tel. Co., phone 1014, June	5 75
July	22.	47.	To E. W. Seibels & Son, rent 405, July	20 00
July	22.	48.	To Irene Covington, salary July	100 00
July	22.	49.	To L. G. Washington, services rendered July	35 00
July	22.	50.	To R. H. Walton, salary July	75 00
July	22.	51.	To A. I. Rembert, expenses account, July	12 32
July	26.	52.	To J. T. McCaw, multigraph letter, note paper	11 00
July	30.	53.	To R. H. Walton, traveling expenses July	60 17
July	30.	54.	To Irene Covington, traveling expenses July	52 08
Aug.	6.	55.	To Cope's Transfer, trips to Sanatorium	24 50
Aug.	15.	56.	To A. I. Rembert, auto trip to Sanatorium	4 50
Aug.	28.	57.	To Hattie G. Smith, nurs. tuber. pat., & exp inc. in trip to G'getown	16 41
Aug.	29.	58.	To McCaw of Columbia, 5,000 letter heads	14 25
Aug.	29.	59.	To James Morse, ice for August	1 95
Aug.	30.	60.	To A. I. Rembert, salary for August	158 33
Aug.	30.	61.	To L. G. Washington, stenographic work	35 00
Aug.	30.	62.	To Irene Covington, salary	100 00
Aug.	30.	63.	To R. H. Walton, salary	75 00
Sept.	2.	64.	To R. H. Walton, expense account	38 76
Sept.	6.	65.	To Cope's Transfer, three trips to Sanatorium	27 00
Sept.	9.	66.	To A. I. Rembert, expenses trip Asheville and return	26 50
Sept.	9.	67.	To Irene Covington, traveling expenses August	42 25
Sept.	9.	68.	To Postmaster, stamps	25 00
Sept.	10.	69.	To Western Union Tel. Co., official messages	1 80
Sept.	22.	70.	To E. W. Seibels & Son, rent 405, September	20 00
Sept.	23.	71.	To L. G. Washington, stenographic work	35 00
Sept.	23.	72.	To R. H. Walton, salary September	75 00
Sept.	23.	73.	To Irene Covington, salary September	100 00
Sept.	24.	74.	To A. I. Rembert, three auto trips to Sanatorium	18 00

APPROPRIATION RELIEF AND EDUCATION TUBERCULOSIS

Voucher		PATIENTS.—(Cont.)		
1919.	No.			
Oct.	2. 75.	To Irene Covington, traveling expenses September	46 00	
Oct.	9. 76.	To R. H. Walton, traveling expenses September	31 24	
Oct.	16. 77.	To Western Union Telegraph Company, messages September	2 11	
Oct.	28. 78.	To A. I. Rembert, expense account Oct.	41 49	
Oct.	28. 79.	To Irene Covington, salary October	100 00	
Oct.	30. 80.	To L. G. Washington, stenographic work October	35 00	
Oct.	30. 81.	To R. H. Walton, salary October	75 00	
Nov.	3. 82.	To Irene Covington, expense account October	83 04	
Nov.	4. 83.	To A. I. Rembert, two trips to Sanatorium	12 25	
Nov.	5. 84.	To Rev. Jagers, to milk and eggs, Callie Bowen	9 15	
Nov.	6. 85.	To John Roundtree, making articles for fair exhibit	10 00	
Nov.	6. 86.	To Western Union Telegraph Co., official messages	9 07	
Nov.	7. 87.	To Southern Bell Telephone Co.	5 75	
Nov.	10. 88.	To A. I. Rembert, expenses Sanatorium fair exhibit	118 23	
Nov.	17. 89.	To Cary Printing Co., 5,000 color folders	43 50	
Nov.	18. 90.	To Joint Committee on Printing, office supplies	14 39	
Nov.	24. 91.	To A. I. Rembert, expense account	19 19	
Nov.	28. 92.	To A. I. Rembert, salary November	158 33	
Nov.	28. 93.	To L. G. Washington, stenographic work November	35 00	
Nov.	28. 94.	To Irene Covington, salary November	100 00	
Nov.	28. 95.	To R. H. Walton, salary November	75 00	
Dec.	1. 96.	To James Morse, ice for November	1 85	
Dec.	5. 97.	To E. W. Seibels & Sons, rent November	25 00	
Dec.	8. 98.	To Irene Covington, traveling expenses November	25 50	
Dec.	9. 99.	To A. I. Rembert, expenses account Dec. 3-7	20 60	
Dec.	10. 100.	To Rebecca Walton, expense account November	34 36	
Dec.	13. 101.	To McCaw of Columbia, paper and envelopes	17 25	
Dec.	20. 102.	To Irene Covington, salary December	100 00	
Dec.	20. 103.	To L. G. Washington, salary December	35 00	
Dec.	20. 104.	To R. H. Walton, salary December	75 00	
Dec.	26. 105.	To Joint Committee on Printing, office supplies	4 47	
Dec.	26. 106.	To McCaw of Columbia, 2,000 printed envs. and cor. env.	16 65	
Voucher		Following Bills Contracted in 1919.		
1920.	No.			
Jan.	6. 107.	To Western Union Telegraph Co., official messages during November	3 90	
Jan.	9. 108.	To Irene Covington, expense account December	15 50	
Appropriation			\$4,995 50	
Expenditures			\$5,000 00	
Balance			\$4 41	

Voucher		DAIRY, SOUTH CAROLINA SANATORIUM.		
1919.	No.			
July	15. 1.	To Geo. E. Lafaye, achitect, serv. ren. acct. plans, spec. & supervision	\$150 00	
Aug.	6. 2.	To W. B. Summersett, contractor, pymt. erecting dairy as per contract	1,275 00	
Sept.	12. 3.	To W. B. Summersett, pymt. erecting dairy as per contract	1,960 00	
Oct.	10. 4.	To W. B. Summersett, pymt. erecting dairy as per contract	1,250 00	
1920.				
Jan.	3. 5.	To W. B. Summersett, payment erecting dairy as per contract	2,705 00	
Jan.	3. 6.	To J. C. Mace, 1 16 bu. feed truck	15 00	
Jan.	16. 7.	To George E. Lafaye, bal. on plans and specifications	149 23	
Jan.	23. 8.	To James Mfg. Co., equipment for dairy	495 77	
Appropriation			\$8,000 00	
Expenditures			\$8,000 00	
Balance			\$8,000 00	
Voucher		WARD FOR COLORED TUBERCULOSIS PATIENTS.		
1919.	No.			
Aug.	4. 1.	To Chas. C. Wilson, Arc., 1st instal. serv. ren. acct. plans & spec.	\$ 527 77	
Aug.	15. 2.	To The State Co., notice to bidders for bids on erec. & com. negro bid.	11 25	
Aug.	16. 3.	To The Record Pub. Co., adv., notice to bidders	13 73	
Sept.	12. 4.	To W. B. Summersett, payment erecting colored ward as per contract	595 00	
Oct.	10. 5.	To W. B. Summersett, payment erecting colored ward as per contract	3,019 00	
Nov.	17. 6.	To W. B. Summersett, payment erecting colored ward as per contract	3,061 00	
Dec.	12. 7.	To W. B. Summersett, payment erecting colored ward as per contract	2,167 00	
1920.				
Jan.	22. 8.	To W. B. Summersett, payment erecting colored ward as per contract	585 23	
Appropriation			\$10,000 00	
Expenditures			\$10,000 00	
Balance			\$10,000 00	

Voucher TRAVELING EXPENSES STATE HEALTH OFFICER.

1919.	Voucher No.		
Mch. 26	1.	To James A. Hayne, M. D., traveling expenses	\$260 25
May 16	2.	To James A. Hayne, M. D., traveling expenses	70 18
May 20	3.	To James A. Hayne, M. D., traveling expenses	50 81
July 23	4.	To James A. Hayne, M. D., traveling expenses	157 38
Aug. 13	5.	To James A. Hayne, M. D., traveling expenses	52 27
Sept. 15	6.	To James A. Hayne, M. D., traveling expenses	54 62
Sept. 18	7.	To Southern Ry. ticket agent, 4 U. S. scrip books	105 00
Oct. 6	8.	To James A. Hayne, State Health Officer, trav. expenses	78 04
Nov. 6	9.	To James A. Hayne, State Health Officer, trav. expenses	120 17
Dec. 2	10.	To James A. Hayne, State health officer	51 20
			\$999 92
Appropriation			\$1,000 00
Expenditures			\$999 92
Balance			\$0 08

Voucher INFLUENZA CONTROL MEASURES.

1919.	Voucher No.		
Jan. 18.	1.	To Southern Railway Co., mileage scrip books	\$180 00
Jan. 24.	2.	To Southern Railway Co., mileage scrip books	180 00
Jan. 25.	3.	To C. E. Houston, salary	53 33
Jan. 28.	4.	To C. C. Gambrell, salary and expenses meet. exec. com. influenza	33 40
Jan. 28.	5.	To W. M. Lester, salary one day	4 00
Jan. 28.	6.	To Wm. Eggleston, salary and expenses meeting exec. com. influenza	26 50
Jan. 28.	7.	To E. A. Hines, salary and expenses meet. exec. com. influenza	42 60
Jan. 28.	8.	To Robert Wilson, salary and expenses meet. exec. com. influenza	38 00
Jan. 28.	9.	To W. W. Dodson, salary and expenses meet. exec. com. influenza	40 60
Jan. 31.	10.	To Leila Bussy, salary	30 00
Jan. 31.	11.	To R. S. Bailey, salary	174 67
Jan. 31.	12.	To S. F. Blakely, salary	153 33
Jan. 31.	13.	To R. S. Bush, salary	100 00
Jan. 31.	14.	To R. H. Folk, salary	121 33
Jan. 31.	15.	To Cecil Higgins, salary	42 87
Jan. 31.	16.	To C. E. Houston, salary	57 33
Jan. 31.	17.	To Mary V. Hunter, salary	51 45
Jan. 31.	18.	To J. W. Jones, salary	51 45
Jan. 31.	19.	To Ellen McDaniel, salary	12 90
Jan. 31.	20.	To G. E. Neal, salary	121 33
Jan. 31.	21.	To W. M. Riser, salary	45 83
Jan. 31.	22.	To M. L. Smith, salary and expenses	38 31
Jan. 31.	23.	To Adelle Timmons, salary	14 30
Jan. 31.	24.	To M. L. Walker, salary	51 45
Jan. 31.	25.	To F. O. Winter, salary	7 50
Jan. 31.	26.	To Hattie J. Smith, salary	53 33
Jan. 31.	27.	To Cecil Higgins, travel Jan. 22 to 29	13 05
Jan. 31.	28.	To Leila Bussy, travel Jan. 25 to 29	22 40
Jan. 31.	29.	To J. W. Jones, expenses Jan. 22 to 30	15 00
Jan. 31.	30.	To McCaw of Columbia, supplies and printing	110 75
Jan. 31.	31.	To Edith Morgan, salary and expenses	49 19
Jan. 31.	32.	To G. E. Neal, travel expenses Jan. 20 to 30	17 45
Jan. 31.	33.	To C. S. Kinzer, salary	25 33
Jan. 31.	34.	To N. L. Walker, travel expenses Jan. 20 to Feb. 1	29 60
Jan. 31.	35.	To N. L. Walker, salary	10 00
Jan. 31.	36.	To Chauncy Simms, salary	15 00
Jan. 31.	37.	To Emma Taylor, salary	15 00
Jan. 31.	38.	To Bessie Richardson, salary	30 00
Jan. 31.	39.	To Letha Gilliard, salary	23 50
Jan. 31.	40.	To Hattie Josey, salary	15 00
Jan. 31.	41.	To Bessie McNair, salary	25 00
Jan. 31.	42.	To Sue Coker, salary	50 00
Jan. 31.	43.	To Clara Norris, salary	46 45
Jan. 31.	44.	To American Journal of Public Health, influenza literature	25 00
Jan. 31.	45.	To Postal Tel. Cable Co., official messages	2 88
Jan. 31.	46.	To Western Union Telegraph Co., official messages	116 92
Jan. 31.	47.	To Clara J. Simpson, salary	25 74
Feb. 10.	48.	To S. F. Blakely, salary and travel Feb. 1 to 7 inclusive	102 99
Feb. 10.	49.	To R. S. Bush, salary and travel Jan. 22 to Feb. 8 inclusive	94 96
Feb. 10.	50.	To N. L. Walker, travel expenses Feb. 1	6 95
Feb. 11.	51.	To G. E. Neal, Feb. 1 to 11	10 55
Feb. 13.	52.	To Clara J. Simpson, Jan. 24 to 29	22 40
Feb. 17.	53.	To R. L. Neal, salary and travel Feb. 16 to 18	34 50
Feb. 18.	54.	To G. E. Neal, salary travel Feb. 1 to 18	195 65
Feb. 18.	55.	To Southern Railway, 12 500 mile scrip books	180 00
Feb. 19.	56.	To G. E. Neal, salary	10 75
Feb. 19.	57.	To Hattie J. Smith, salary and travel	54 90
Feb. 19.	58.	To Sue Coker, salary	25 00
Feb. 19.	59.	To Annie Rogers, gasoline and oil	66 33

		INFLUENZA CONTROL MEASURES,—(Cont.)		
1919.		Voucher No.		
Feb.	19.	60.	To Church Home Orphanage, salaries nurses during flue epidemic.....	235 78
Feb.	21.	61.	To F. M. Routh, salary and expenses Jan. 1 to Feb. 2	276 24
Feb.	28.	62.	To Clara Jane Simpson, salary	120 00
Feb.	28.	63.	To R. S. Bailey, salary	312 00
Feb.	28.	64.	To C. S. Kinzer, salary	312 00
Feb.	28.	65.	To G. E. Neal, salary	53 33
Feb.	28.	66.	To W. M. Riser, salary	125 00
Feb.	28.	67.	To Adelle Timmons, salary	91 41
Feb.	28.	68.	To F. O. Winter, salary	15 00
Feb.	28.	69.	To R. S. Bailey, expenses	8 10
Feb.	28.	70.	To Clara Jane Simpson, expenses	85 90
Mch.	1.	71.	To Ellen McDaniel, salary	68 57
Mch.	1.	72.	To Western Union Telegraph Company, official messages	20 89
Mch.	31.	73.	To Southern Bell Telephone Co., toll messages and phone rent 3032	51 74
Mch.	31.	74.	To Mary E. Barlow, salary	21 43
Mch.	31.	75.	To C. V. Akin, research	124 00
Mch.	31.	76.	To C. S. Kinzer, salary	324 00
Mch.	31.	77.	To F. O. Winter, salary	15 00
Mch.	31.	78.	To G. E. Neal, salary	124 00
Mch.	31.	79.	To A. J. Hill, salary	35 00
Apr.	15.	80.	To C. V. Akin, research	75 00
Apr.	16.	81.	To C. V. Akin, travel expenses	9 33
Apr.	22.	82.	To Southern Railway Company, U. S. scrip books, mileage	150 00
Apr.	30.	83.	To C. V. Akin, research	75 00
Apr.	30.	84.	To F. O. Winter, salary	15 00
Apr.	30.	85.	To G. E. Neal, salary	120 00
May.	15.	86.	To C. V. Akin, research	75 00
May	30.	87.	To Southern Railway Co., U. S. scrip books	120 00
May	31.	88.	To F. O. Winter, salary	15 00
May	31.	89.	To G. E. Neal, salary	124 00
May	31.	90.	To C. V. Akin, research	80 00
May	31.	91.	To G. E. Neal, travel expenses	4 57
June	15.	92.	To C. V. Akin, research	60 00
June	30.	93.	To G. E. Neal, salary	120 00
June	30.	94.	To F. O. Winter, salary	15 00
June	30.	95.	To C. V. Akin, research	90 00
June	30.	96.	To M. J. Walker, personal services attending influenza patients	150 00
July	16.	97.	To Southern Railway Co., scrip books	180 00
July	16.	98.	To C. V. Akin, research	75 00
July	31.	99.	To G. E. Neal, salary	124 00
		Voucher No.		
1920.		No.		
Jan.	31.	100.	To F. O. Winter, salary	15 00
Jan.	31.	101.	To C. V. Akin, research	80 00
July	31.	102.	To Southern Railway Company	180 00
Aug.	15.	103.	To C. V. Akin, research	75 00
Aug.	31.	104.	To F. O. Winter, salary	15 00
Aug.	31.	105.	To G. E. Neal, salary	124 00
Aug.	31.	106.	To C. V. Akin, research	80 00
Sept.	15.	107.	To C. V. Akin, research	75 00
Sept.	30.	108.	To G. E. Neal, salary	120 00
Sept.	30.	109.	To F. O. Winter, salary	15 00
Sept.	30.	110.	To C. V. Akin, research	75 00
Sept.	30.	111.	To G. E. Neal, travel expenses Sept. 1 to 18	14 78
Sept.	30.	112.	To Southern Railway Co., scrip books	210 00
Oct.	31.	113.	To G. E. Neal, salary	124 00
Oct.	31.	114.	To C. V. Akin, research	155 00
Oct.	31.	115.	To F. O. Winter, salary	15 00
Oct.	31.	116.	To G. E. Neal, travel Oct. 3 to 28	27 07
Oct.	31.	117.	To Wm. Eggleston, travel expenses	58 00
Oct.	31.	118.	To E. A. Hines, travel expenses	86 63
Oct.	31.	119.	To Joint Committee on Printing	4 15
Nov.	30.	120.	To G. E. Neal, salary	120 00
Nov.	30.	121.	To F. O. Winter, salary	15 00
Nov.	30.	122.	To C. V. Akin, research	150 00
Dec.	3.	123.	To McCaw of Columbia, printing influenza bulletins	42 00
Dec.	31.	124.	To C. V. Akin, research	155 00
Dec.	31.	125.	To G. E. Neal	124 00
Dec.	31.	126.	To F. O. Winter, salary	15 00

1919.		Voucher No.	INFLUENZA CONTROL MEASURES.—(Cont.)	
Dec.	27.	127	To Southern Ry. Co., scrip books for transportation	240 00
Dec.	30.	128.	To Dr. Robert Wilson, Jr., travel expenses and service	38 00
Dec.	30.	129.	To Dr. Wm. Egleston, travel expenses and service	29 40
Dec.	30.	130.	To Dr. R. A. Marsh, travel expenses and service	24 40
Dec.	30.	131.	To Dr. C. C. Gambrell travel expenses and service	33 40
Dec.	30.	132.	To Dr. W. W. Dodson, travel expenses and service	40 60
Dec.	30.	133.	To Dr. E. A. Hines, travel expenses and service	42 60
Dec.	30.	134.	To Dr. William Lester, travel expenses and service	4 00

 \$9,932 37

RECAPITULATION.

Appropriation	for emergency fund—influenza	\$10 000 00
Expenditures	.....	\$9,932 37
Balance	.....	\$67 63
Outstanding bills (?)		

1919.		Voucher No.	PRINTING, STATIONERY & STAMPS.	
April	17.	1.	To Postmaster, 2,000 3c stamped envelopes	\$67 64
April	18.	2.	To J. T. McCaw, 2,000 ptd. letters, 4,000 infec. disease forms, 7,000 env.	68 40
May	4.	3.	To Postmaster, 5,000 1c postcards	50 00
May	6.	4.	To Postmaster, 2,000 2c printed return envelopes	48 00
May	6.	5.	To State Company, 5,000 letter heads	19 75
May	23.	6.	To J. T. McCaw, 2,000 infec. dis. fms, 12 requis. bks. 5,000 ptd. postcards ..	37 75
June	14.	7.	To Letter Shop, 250 Multigraph letters and 1,000 extracts from Code..	8 75
June	14.	8.	To Cary Printing Co., 10,000 return postcards	22 40
June	14.	9	To The Daggett Printing Co., 200 envelopes, plain, 300 3c envelopes ..	9 25
July	26.	10.	To J. T. McCaw, 1,000 copies Sanitary Code of S. C.	225 07
Aug.	1.	11.	To Postmaster, Stamps	25 00
Oct.	3.	12.	To The Letter Shop, multigraphing forms and postals	12 85
Oct.	10.	13.	To Postmaster, stamps	30 00
Nov.	28.	14.	To McCaw of Columbia, 3,000 quarantine disease forms	17 75
Dec.	8.	15.	To Peace Printing Co., 1,000 reprints	33 25
Dec.	13.	16.	To State Company, 2,000 circulars, Leth. Encephalitis	11 00
				<hr/> \$686 86
Appropriation	.....			\$1,000 00
Expenditures	.....			\$686 86
Balance	.....			\$313 14
Outstanding Bills(?)				

